GENERAL NOTES:

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK) 2009 EDITION AND SUPPLEMENTS THERETO, AS WRITTEN AND PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. (SEE GREENBOOK), THE CITY OF TORRANCE STANDARD PLANS, THE LATEST CALTRANS STANDARDS AND SPECIFICATIONS, AND TO THE SATISFACTION OF THE ENGINEER.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL STRUCTURES, INCLUDING SUBSTRUCTURES, SHOWN AND NOT SHOWN ON THE PLAN. THE CONTRACTOR SHALL BEAR THE ENTIRE COST OF REPAIRING OR REPLACING ANY OF SAID STRUCTURES DAMAGED BY HIM DURING PROSECUTION OF THE WORK. ALL LOCATIONS SHOWN ON THE PLAN FOR UTILITY LINES HAVE BEEN TAKEN FROM AVAILABLE RECORDS AND THEIR COMPLETENESS OR CORRECTNESS ARE IN NO WAY GUARANTEED.
- 3. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600, ALL PUBLIC UTILITY COMPANIES AND OWNERS OF ALL PRIVATE FACILITIES WITHIN THE AREA OF CONSTRUCTION AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY WORK WITHIN SAID AREA.
- 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AS REQUIRED BY THE PUBLIC WORKS DEPARTMENT BEFORE COMMENCING WORK. TRAFFIC CONTROL WITHIN PUBLIC STREET RIGHTS OF WAY SHALL BE IN CONFORMANCE WITH THE STAGE CONSTRUCTION PLANS INCLUDED IN THESE PLANS AND IN CONFORMANCE WITH CALTRANS LATEST STANDARDS AND SPECIFICATIONS WHENEVER APPLICABLE.
- 5. CAUTION: REVIEW APPROVED CONSTRUCTION PLAN. IF CONSTRUCTION REQUIRES WORKERS AND/OR EQUIPMENT TO BE WITHIN 6 FEET, OR CRANES OR HOISTING DEVICES TO BE WITHIN 10 FEET OF OVERHEAD ELECTRIC LINES, CALL SOUTHERN CALIFORNIA EDISON CO. AT (310) 608-5232.
- 5. PRIOR TO START OF CONSTRUCTION, ALL SURVEY MONUMENTS IN THE PROJECT AREA SHALL BE LOCATED AND TIED OUT BY OTHERS. THE CONTRACTOR SHALL NOT DESTROY ANY MONUMENTS OR TIES UNTIL HE HAS WRITTEN AUTHORIZATION FROM THE ENGINEER STATING THAT MONUMENTS HAVE BEEN TIED OUT. A LIST OF FOUND MONUMENTS AND TIE OUT DATA IS AVAILABLE WITHIN THE PROJECT SPECIFICATIONS.
- 7. CONTRACTOR SHALL MAKE AVAILABLE FOR THE INSPECTOR'S REVIEW, ON A DAILY BASIS, AS BUILT DRAWINGS FOR WORK PERFORMED UP TO AND INCLUDING THE PREVIOUS DAYS ACTIVITIES.
- 8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO REMOVING OR RELOCATING ANY TREES WITHIN THE PUBLIC RIGHT OF WAY.
- 9. ALL TRAFFIC SIGNS TO BE RELOCATED OR REMOVED SHALL BE DONE SO BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 2 WORKING DAYS IN ADVANCE. THE CONTRACTOR SHALL PROVIDE A 24—HOUR TELEPHONE NUMBER FOR EMERGENCIES.
- 10. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SITE CONDITIONS PRIOR TO COMMENCING WORK.
- 11. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK IN QUESTION.

CONSTRUCTION NOTES:

- 1) PROTECT IN PLACE (AS NOTED)
- 2 REMOVE EXISTING IMPROVEMENTS (AS NOTED).
- (3) COLD MILL EXISTING ASPHALT CONCRETE PAVEMENT (DEPTH VARIES 5" TO 7") AND REMOVE UNCLASSIFIED MATERIALS (DEPTH VARIES 0" TO 2"), FOR TOTAL REMOVAL OF 7"
- 8 CONSTRUCT 3" ASPHALT CONCRETE (C2 PG-64-10) SURFACE COURSE OVER 4" ASPHALT CONCRETE (B PG-64-10) BASE COURSE.
- 9 CONSTRUCT TYPE A2-8 CURB ON 8" CMB PER SPPWC STANDARD PLAN NO. 120-2 AND DETAIL E ON SHEET 3. MATCH EXISTING GUTTER WIDTH 'W'.
- ON 6" CMB. LENGTH AND WIDTH PER PLAN.
- CONSTRUCT MODIFIED TYPE C1-6 CURB PER SPPWC STD PLAN 120-2 AND DETAIL D ON SHEET 3.
- (17) COLD MILL EXISTING ASPHALT CONCRETE PAVEMENT (DEPTH = 1.5") AND CONSTRUCT 1.5" THICK ASPHALT CONCRETE (C2 PG-64-10) OVERLAY.
- REMOVE EXISTING AND FURNISH AND INSTALL NEW TRAFFIC SIGNAL PULL BOX PER CALTRANS STANDARD PLAN ES-8A PRIOR TO PAVERS INSTALLATION.

BASIS OF BEARINGS

NORTH 14'16'56" WEST BEING BETWEEN CORS PVHS AND WRHS

BENCHMARK

LOS ANGELES COUNTY BENCHMARK 10877

ROAD DEPARTMENT BENCHMARK TAG IN WEST CATCH BASIN (WEST SERVICE ROAD) CRENSHAW BOULEVARD 1 METER SOUTH OF BACK CURB RETURN 4.3 METERS WEST OF CENTERLINE & 14 METERS SOUTH OF CENTERLINE 186TH STREET

NORTH AMERICAN VERTICAL DATUM OF 1988 ELEVATION: 19.201 FEET 5.852 METERS

ADJUSTMENT: BASELINE 1995

CITY OF TORRANCE CONSTRUCTION PLANS FOR CRENSHAW BOULEVARD REHABILITATION, T-22

(190TH STREET TO 182ND STREET)
FEDERAL PROJECT NO. HPLUL-5249 (022)

N.T.S.

REF: THOMAS GUIDE L.A. COUNTY
PAGE 763-F2 TO G2 AND F5 TO F7

SHEET INDEX:

<u>S</u>	HEET No.	COT PLAN NO.	DESCRIPTIONS:
	1	ST-1037	TITLE SHEET
	2-3	ST-1037	TYPICAL SECTIONS
	4-5	ST-1037	ROADWAY PLANS (190TH ST. TO 405 ON/OFF RAMP)
	6-7	ST-1037	SIGNING & STRIPING PLANS
	. 8	ST-1037	TRAFFIC CONTROL PLAN (GENERAL NOTES & PCMS PLAN)
	9	ST-1037	CONSTRUCTION STAGE OVERVIEW & TYPICAL SECTIONS
	10-15	ST-1037	TRAFFIC CONTROL PLANS (STAGE 1 & STAGE 2)
	16	ST-1037	ROADWAY PLAN (405 ON/OFF RAMP TO 182ND ST.)
	17	ST-1037	STRIPING PLAN (405 ON/OFF RAMP TO 182ND ST.)
	18-19	ST-1037	SIGNING PLAN
	20-24	ST-1037	TRAFFIC CONTROL PLAN (405 ON/OFF RAMP TO 182ND ST.)
	25-31	ST-1037	HARDSCAPE/LANDSCAPE PLANS (190TH ST. TO 405 ON/OFF RA
	32	ST-1037	HARDSCAPE PLAN (UNDER 405 OVERPASS)

UTILITY CONTACTS:

UTILITY	CONTACT	PHONE NUMBER
AT&T LOCAL SERVICES	MS. MARIA GUNZMAN	(213) 787-9996
CHEVRON	MR. JOHN CRIPPEN	(714) 936-4678
CRIMSON PIPELINE	MR. MICHAEL ROMLEY	(661) 343-3218
EXXON-MOBIL	MS. RUTH CRONIN-FRUITT	(310) 212-1761
MCI: SOUTHERN CALIFORNIA	MR. DEAN BOYERS	(972) 729-6322
PACIFIC PIPELINE SYSTEM	MR. GEORGE GOOCH	(562) 728-2325
SBC/PAC BELL	MS. MICHAEL JEFFERSON	(310) 515-4099
SHELL PIPELINE COMPANY		(310) 816-2063
SOUTHERN CALIFORNIA EDISON DISTRIBUTION	MR. CHRISTIAN ADAMS	(310) 608-5232
SOUTHERN CALIFORNIA GAS TRANSMISSION	MS. RON SILVER	(818) 701-4546
TIME WARNER CABLE	MR. RANDALL STARKEY	(562) 259-2084
WEST BASIN MUNICIPAL WATER DISTRICT	MR. GEORGE COOK	(310) 679-2575
CITY OF TORRANCE - WATER DEPARTMENT	MR. ALAN BERNDT	(310) 618-2916
CALIFORNIA WATER SERVICE	MR. FRANK SCOTTIE	(310) 257-1426
METROPOLITAN WATER DISTRICT	-	(213) 217-6679

	COLD MILL		EXISTING CONCRETE
	NEW PAVEMENT		NEW CONCRETE
••••••	EXISTING ELECTRICAL		SAWCUT LINE
——FO——	EXISTING FIBER OPTIC	SS	EXISTING SANITARY SEWER
—— G ——	EXISTING GAS	T	EXISTING TELECOMMUNICATION
SD	EXISTING STORM DRAIN	W	EXISTING WATER

HATCH / LINE LEGEND

ABBREVIATIONS (ADD TO GREEN BOOK SECTIONS 1-3)

AP	ANGLE POINT	LT	LEFT
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	MIN	MINIMUM
ARHM	ASPHALT RUBBERIZED HOT MIX	N	NORTH
BEG	BEGIN	N'LY	NORTHERLY
BPV	BACKFLOW PREVENTION VALVE	N.T.S.	NOT TO SCALE
C&G	CURB AND GUTTER	PCC	PORTLAND CEMENT CONCRETE
СМВ	CRUSHED MISCELLANEOUS BASE	PROP	PROPOSED
Q	CENTERLINE	PVI	POINT OF VERTICAL INTERSECTION
COT	CITY OF TORRANCE	RT	RIGHT
Ε	EAST	S	SOUTH
EG	EXISTING GROUND	SCE	SOUTHERN CALIFORNIA EDISON
ELEV	ELEVATION	S'LY	SOUTHERLY
EX	EXISTING	SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
FG	FINISH GROUND	<u>\$</u>	STATION LINE
GB	GRADE BREAK	VAR	VARIES
INT	INTERSECTION	W	WATER OR WEST
LG	LIP OF GUTTER	X-GUTTER	CROSS GUTTER

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)

111-4	CURB RAMP
112-2	CURB AND SIDEWALK JOINTS
113-2	SIDEWALK AND DRIVEWAY REPLACEMENT
120-2	CURB AND GUTTER - BARRIER

CITY OF TORRANCE

(2009 EDITION & REVISIONS)

T108	DRIVEWAY IN NARROW PARKWAY
T1004	ARTERIAL & COLLECTOR RIGHT LANE CLOSURE
T1005	ARTERIAL & COLLECTOR LEFT LANE CLOSURE
T1006	ARTERIAL & COLLECTOR CENTER LANE CLOSURE
T1008	ARTERIAL MULTI-LANE CLOSURE

CALTRANS

712071	TAVEMENT MANUELLO AND INVITTO ENTED
A20B	PAVEMENT MARKERS AND TRAFFIC LINES
A20D	PAVEMENT MARKERS AND TRAFFIC LINES
A24A	PAVEMENT MARKINGS ARROWS
A24D	PAVEMENT MARKINGS WORDS
A24E	PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES
T14	TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE
ES-4B	ELECTRICAL SYSTEMS (PEDESTRIAN SIGNAL AND RAMP METERING SIGN)
ES-5B	ELECTRICAL SYSTEMS (DETECTORS)
ES-7N	ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, DETAIL NO. 2)
ES-7P	ELECTRICAL SYSTEMS (INTERNALLY ILLUMINATED STREET NAME SIGN)
ES-8A	ELECTRICAL SYSTEMS (NON-TRAFFIC PULL BOX)

PAVEMENT MARKERS AND TRAFFIC LINES

	REV.	DATE	DESCRIPTION	BY	CHECKED	PROFESS/ONWILL BILEZER EN	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT
						No. 55339 Exp. 12/31/14	DRAWN: SC
						PIE OF CALIFORNIA	Jone 16/8/2013
							CRAIG BILEZERIAN DATE: CITY ENGINEER R.C.E. NO. 55339 EXP. 12/31/2014
- Cap							SCALE: AS SHOWN SHEET 1 OF 32
							PLAN NO. ST-1037

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Underground Service Alert

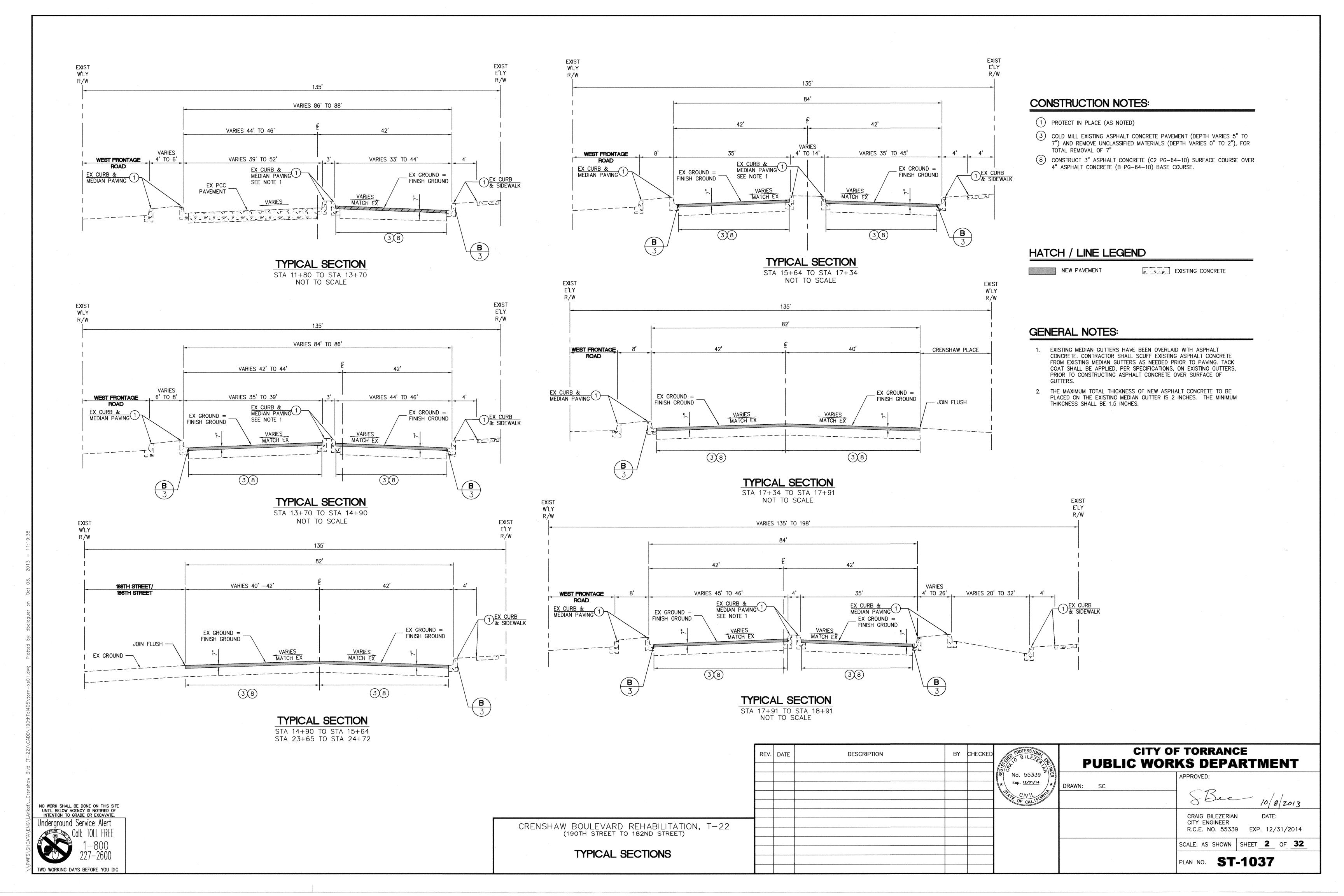
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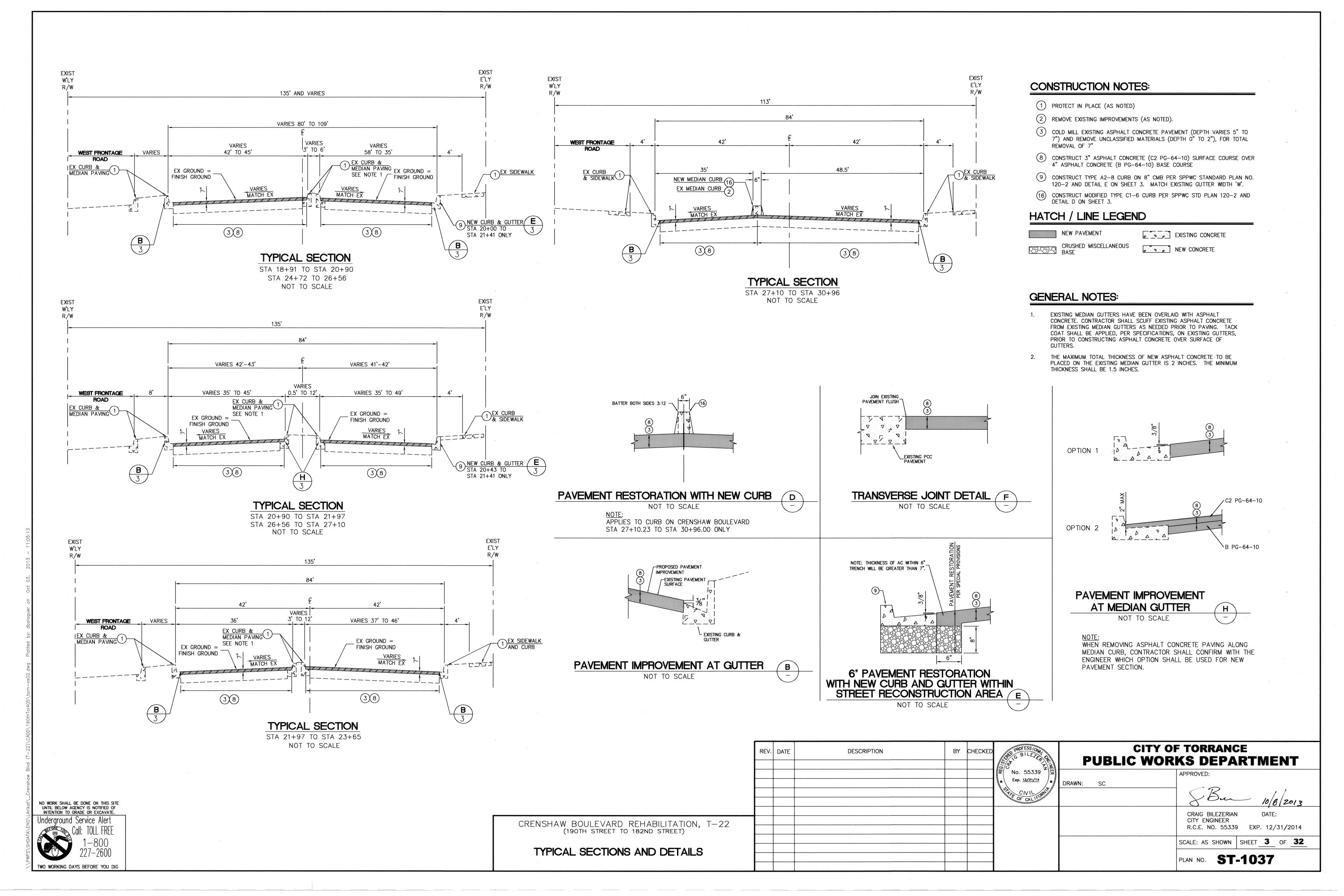
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227-2600

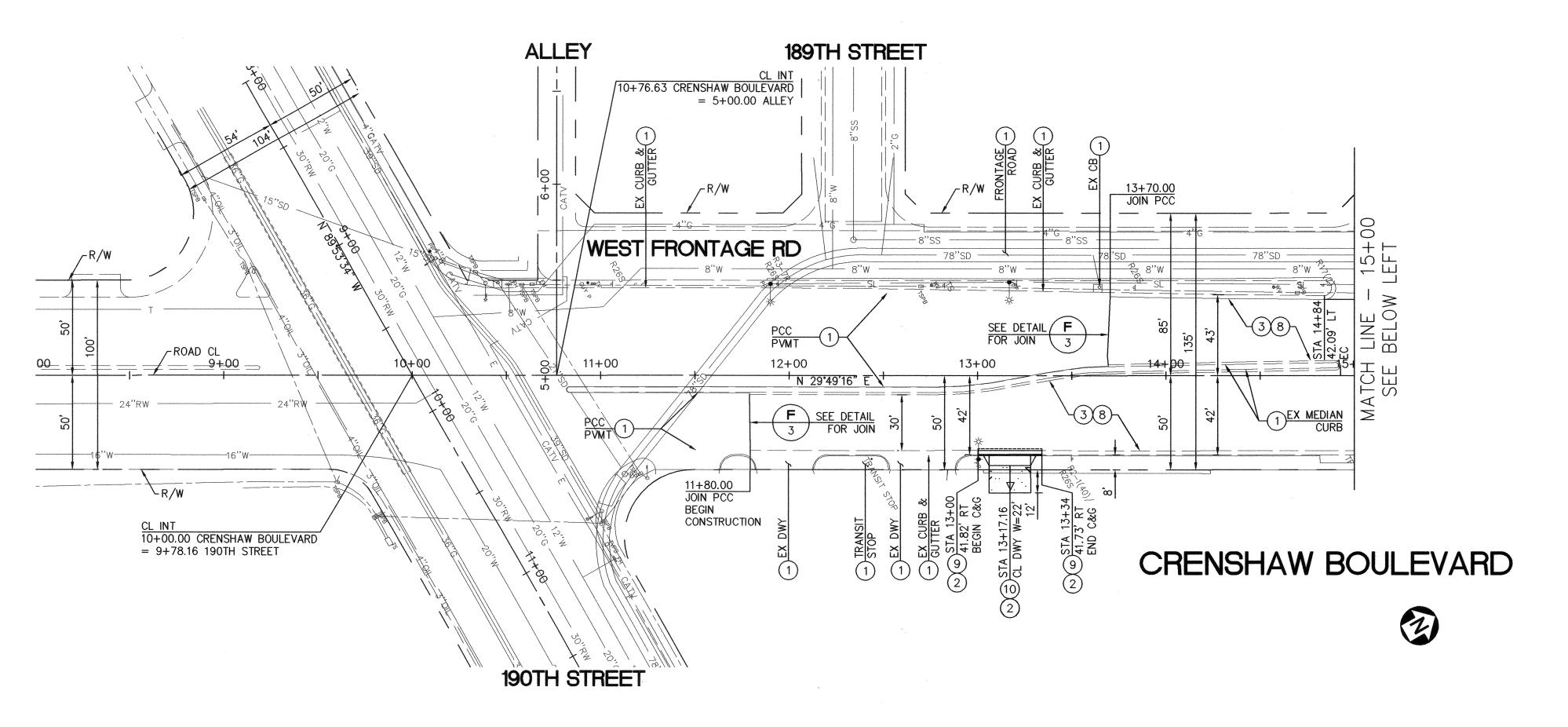
TWO WORKING DAYS BEFORE YOU DIG

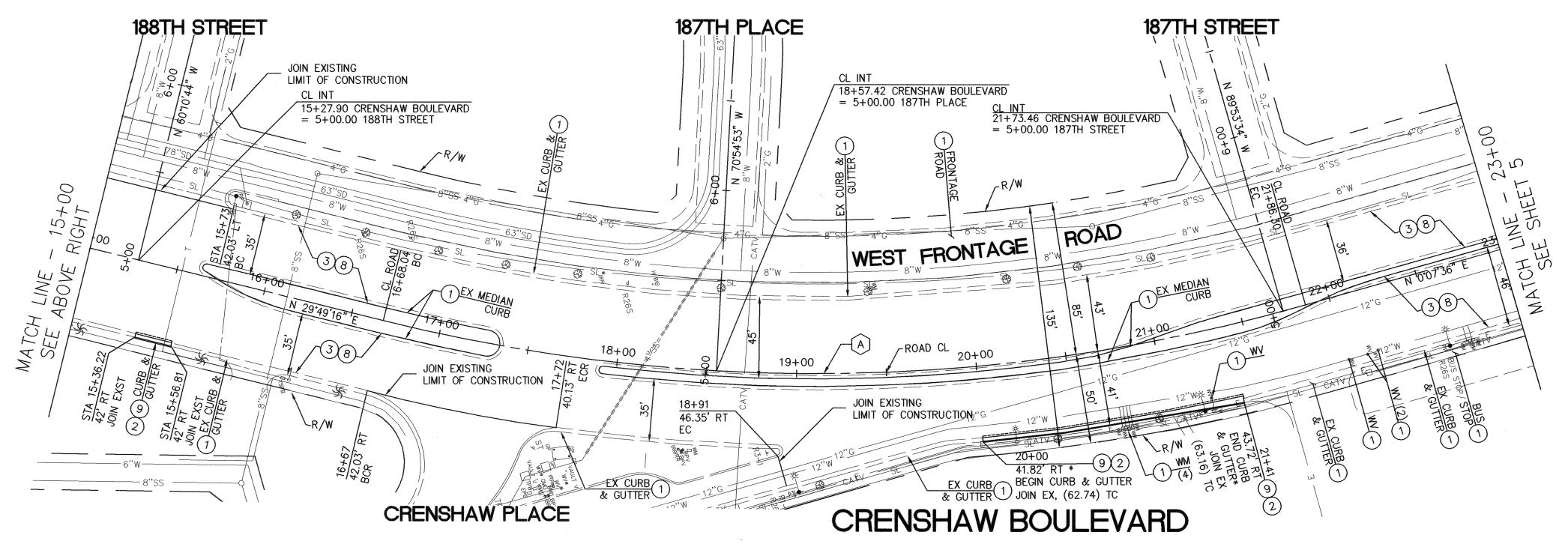
CRENSHAW BOULEVARD REHABILITATION, T-22 (190TH STREET TO 182ND STREET)

TITLE SHEET









CONSTRUCTION NOTES:

- 1) PROTECT IN PLACE (AS NOTED)
- (2) REMOVE EXISTING IMPROVEMENTS (AS NOTED).
- 3 COLD MILL EXISTING ASPHALT CONCRETE PAVEMENT (DEPTH 5" TO 7") AND REMOVE UNCLASSIFIED MATERIALS (DEPTH 0" TO 2"), FOR TOTAL REMOVAL
- 8 CONSTRUCT 3" ASPHALT CONCRETE (C2 PG-64-10) SURFACE COURSE OVER 4" ASPHALT CONCRETE (B PG-64-10) BASE COURSE
- 9 CONSTRUCT TYPE A2-8 CURB ON 8" CMB PER SPPWC STANDARD PLAN NO. 120-2 AND DETAIL E ON SHEET 3. MATCH EXISTING GUTTER WIDTH 'W'.
- (10) CONSTRUCT DRIVEWAY APPROACH PER CITY OF TORRANCE STD. PLAN T108 ON 6" CMB. LENGTH AND WIDTH PER PLAN.

HATCH / LINE LEGEND

—— E ·		EXISTING	ELECTRICAL	. ∆. [∇] .∆ · . ∆	NEW CON	CRETE	
——F0	***************************************	EXISTING	FIBER OPTIC	***************************************	SAWCUT L	LINE	
G -		EXISTING	GAS	——SS——	EXISTING	SANITARY	SEWER
SD	*************	EXISTING	STORM DRAIN	—— T ——	EXISTING	TELECOMM	UNICATION
				W	EXISTING	WATER	

LINE / CURVE TABLE

#	DELTA/BRG	RADIUS	LENGTH	TANGENT
Α	29°41'40"	1000.00'	518.26'	265.09'
-				

GENERAL NOTES:

- *REMOVE TREE ROOTS AS NECESSARY FOR CURB AND GUTTER CONSTRUCTION.
- 2. FOR TRAFFIC DETECTOR LOOP LOCATIONS REFER TO SIGNING AND STRIPING PLANS.

NOTE: ALL UTILITIES AND OTHER FEATURES BEHIND BACK OF CURB SHALL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED ON THIS SHEET.

NOTE TO CONTRACTOR:

LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND DEPTH IS UNKNOWN CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

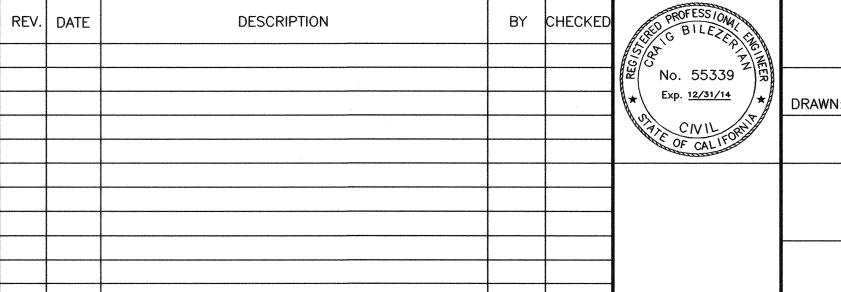
NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

TWO WORKING DAYS BEFORE YOU DIG

Note: For reduced sized prints, original scale is in inches

CRENSHAW BOULEVARD REHABILITATION, T-22 (190TH STREET TO 182ND STREET) **ROADWAY PLAN**

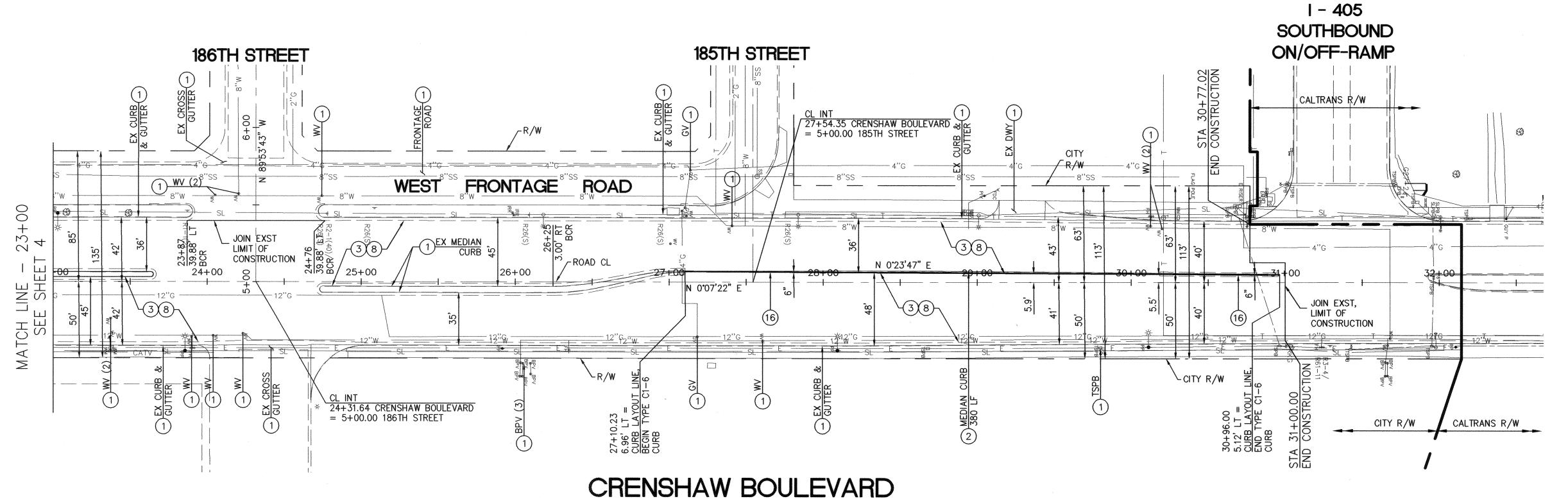
190TH STREET TO STA 23+00



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CITY OF TORRANCE PUBLIC WORKS DEPARTMENT

DRAWN: SC 10/8/2013 CRAIG BILEZERIAN CITY ENGINEER R.C.E. NO. 55339 EXP. 12/31/2014 SCALE: AS SHOWN SHEET 4 OF 32 PLAN NO. **ST-1037**



CONSTRUCTION NOTES:

- 1) PROTECT IN PLACE (AS NOTED)
- 2) REMOVE EXISTING IMPROVEMENTS (AS NOTED).
- 3 COLD MILL EXISTING ASPHALT CONCRETE PAVEMENT (DEPTH = 5" TO 7") AND REMOVE UNCLASSIFIED MATERIALS (DEPTH 0" TO 2"), FOR TOTAL REMOVAL OF 7"
- 8 CONSTRUCT 3" ASPHALT CONCRETE (C2 PG-64-10) SURFACE COURSE OVER 4" ASPHALT CONCRETE (B PG-64-10) BASE COURSE
- (16) CONSTRUCT MODIFIED TYPE C1-6 CURB PER SPPWC STD PLAN 120-2 AND DETAIL D ON SHEET 3.

HATCH / LINE LEGEND

— E — EXISTING ELECTRICAL ----- SAWCUT LINE ---FO--- EXISTING FIBER OPTIC ——SS—— EXISTING SANITARY SEWER ----G ---- EXISTING GAS — T — EXISTING TELECOMMUNICATION ----SD--- EXISTING STORM DRAIN ----W---- EXISTING WATER

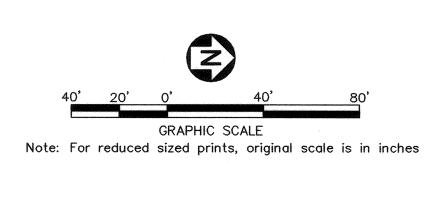
GENERAL NOTE:

FOR TRAFFIC DETECTOR LOOP LOCATIONS REFER TO SIGNING AND STRIPING

NOTE:
ALL UTILITIES AND OTHER FEATURES BEHIND BACK OF CURB SHALL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED ON THIS SHEET.

NOTE TO CONTRACTOR:

LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND DEPTH IS UNKNOWN. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.



CRENSHAW BOULEVARD REHABILITATION, T-22 (190TH STREET TO 182ND STREET) **ROADWAY PLAN**

STA 23+00 TO STA 31+00

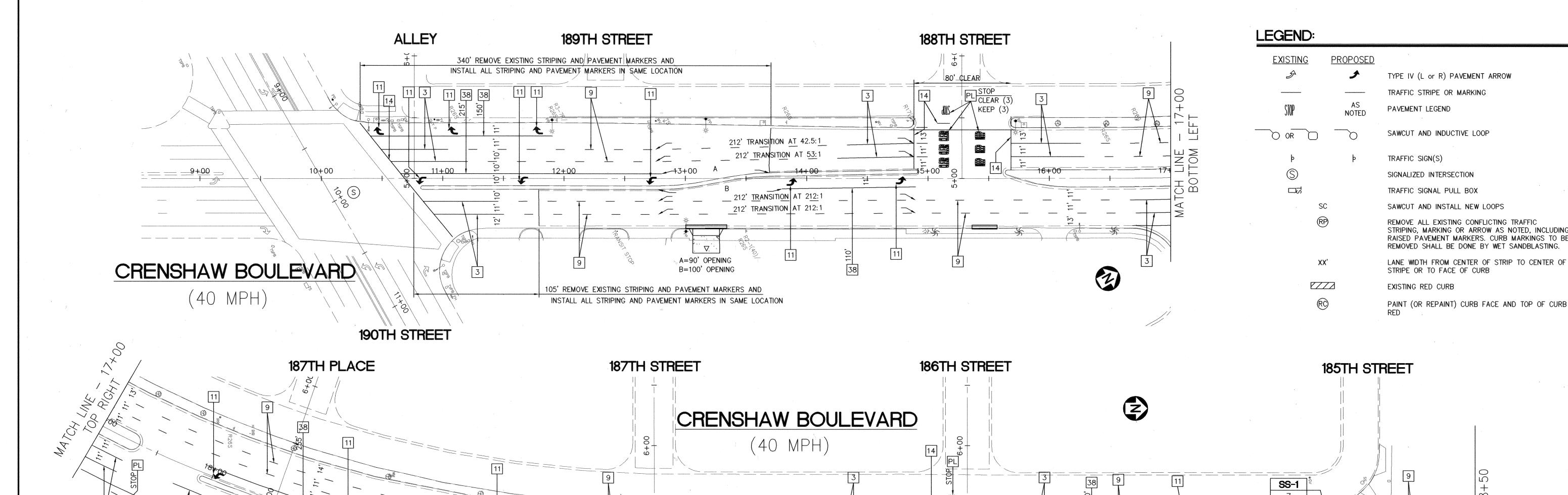
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REV.	DATE	DESCRIPTION	BY	CHECKED	E S C BILLY FA TE	
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CITY OF TORRANCE **PUBLIC WORKS DEPARTMENT** CRAIG BILEZERIAN CITY ENGINEER R.C.E. NO. 55339 EXP. 12/31/2014 SCALE: AS SHOWN SHEET 5 OF 32

PLAN NO. **ST-1037**

TWO WORKING DAYS BEFORE YOU DIG

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.



SIGNING AND STRIPING GENERAL NOTES:

- 1. INSTALLATION OF ALL STRIPING, SIGNS, PAVEMENT MARKERS, AND LEGENDS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. ALL STRIPING, SIGNS, PAVEMENT MARKERS, AND LEGENDS SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF THE FOLLOWING MANUALS:
 - CALIFORNIA MUTCD, LATEST EDITION
 CALTRANS STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION

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- ALL STRIPING, SIGNS, PAVEMENT MARKERS, AND LEGENDS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION AND/OR REMOVAL.
- 4. CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS, PAVEMENT MARKERS AND LEGENDS BY WET SANDBLASTING AND/OR GRINDING. ANY DEBRIS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR
- 5. SIGN POSTS SHALL BE INSTALLED WITH SQUARE PREFORATED STEEL TUBING WITH BREAKAWAY BASE.
- 6. ALL RAISED MEDIAN NOSES SHALL BE PAINTED YELLOW, WITH GLASS BEADS PER SPECIFICATIONS.
- 7. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY THE ENGINEER OF WORK PRIOR TO ANY CHANGES BEING MADE IN THE FIELD.

SIGNING AND STRIPING GENERAL NOTES (CONT):

75' OPENING

- 8. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLANS SHALL BE NEW SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR, EXCEPT FOR EXISTING SIGNS SPECIFICALLY INDICATED TO BE RELOCATED OR TO REMAIN. ALL SIGNS SHALL BE MADE OF 3M DIAMOND GRADE CUBED, WITH PROTECTIVE OVERLAY FILM AND MATCHED COMPONENTS SYSTEM WARRANTY, (12 YEARS) ON 0.080 ALUMINUM WITH "TORRANCE" AND YEAR ON BORDER.
- 9. STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET UNLESS INDICATED OTHERWISE.
- 10. ALL STRIPING, LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS (EXCEPT WITHIN BIKE LANES) SHALL BE THERMOPLASTIC. CURB MARKINGS SHALL BE PAINT (2 COATS).
- 11. THE FINAL THERMOPLASTIC STRIPING AND PAVEMENT MARKINGS FOR EACH CONSTRUCTION PHASE SHALL BE INSTALLED AT THE COMPLETION OF EACH CONSTRUCTION PHASE AND WHEN DIRECTED BY THE ENGINEER.
- 12. ALL TYPE IV PAVEMENT MARKINGS AT THE CROSSWALK SHALL BE CENTERED BETWEEN THE FIRST AND SECOND LOOP DETECTORS.

SIGNING AND STRIPING GENERAL NOTES (CONT):

- 13. INSTALLATION OF PERMANENT SIGNING AND STRIPING SHALL BE PERFORMED ONLY AFTER THE ENGINEER APPROVES THE STRIPING CAT—TRACKS. CONTACT THE ENGINEER AT (310) 618—3066 TO SCHEDULE AN INSPECTION AT LEAST 24 HOURS BEFORE COMPLETING LAYOUTS. THE ENGINEER OR DESIGNEE MUST APPROVE ANY CHANGES DUE TO PLAN DISCREPANCIES OR REVISIONS.
- 14. STRIPING SHALL BEGIN AND TERMINATE AT THE CENTER CORNER DELTA, AT THE LIMIT LINES, OR THE BACK OF THE CROSSWALK.
- 15. ALL NEW INDUCTIVE LOOPS SHALL BE TYPE E, CENTERED IN THE LANE OF TRAVEL, AND SPACED OUT 16' O.C. (TYPICAL). FRONT LOOPS SHALL BE INSTALLED 1' INTO THE LIMIT LINE OF CROSSWALK.
- 16. ALL NEW INDUCTIVE LOOPS SHALL BE CONNECTED TO PROVIDE A CALL TO THE PROPER PHASE PER THE EXISTING CONDITION. ALL LOOPS SHALL BE TESTED PRIOR TO ACCEPTANCE.
- 17. CONTRACTOR SHALL INSTALL A TYPE D BLUE REFLECTIVE MARKER AT EACH FIRE HYDRANT LOCATION WITHIN THE PROJECT LIMITS. THE REFLECTOR SHALL BE 6" FROM THE CENTERLINE STRIPE, OR APPROXIMATE CENTER OF THE PAVEMENT WHERE THERE IS NO CENTERLINE STRIPE, ON THE SIDE NEAREST THE FIRE HYDRANT (PER MUTCD 2012, CA SUPPLEMENT FIG 3B-102). MARKER LOCATION SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION.

REV. DATE

DESCRIPTION

STRIPING NOTES:

85' OPENING

CHECKE

- PL INSTALL PAVEMENT LEGEND ("STOP" OR "KEEP CLEAR") PER CALTRANS STD PLAN A24D OR A24E.
- 3 INSTALL 50' L.F. 4" WIDE SOLID WHITE LANE LINE.
- 9 INSTALL 4" WHITE LANE LINE PER CALTRANS STD PLAN A20A, DETAIL 9.
- 11 INSTALL TYPE IV PAVEMENT ARROW (L OR R) PER CALTRANS STD PLAN A24A.
- INSTALL 12" WHITE CROSSWALK (10' CLEAR) OR LIMIT LINE PER CALTRANS STD PLAN A24E.
- INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS STD PLAN A20D, DETAIL 38. LINE LENGTH AS SHOWN.

SEIME GO. LINE LENGTH NO GHOWIN

No. 55339 Exp. 12/31/14

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Crei				
at/	NO WORK SHALL BE DONE ON THIS SITE	40' 20' 0' 40' 80'		
Arik	UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.	GRAPHIC SCALE		,
7/5/	Underground Service Alert	Note: For reduced sized prints, original scale is in inches	CRENSHAW BOULEVARD REHABILITATION, T-22	*
A\EI	Call: TOLL FREE		(190TH STREET TO 182ND STREET)	
HDAT	1-800			
s/s	227-2600		SIGNING AND STRIPING PLAN	
PWF	221-2000		STA 10+00 TO STA 28+50	
	TWO WORKING DAYS BEFORE YOU DIG			

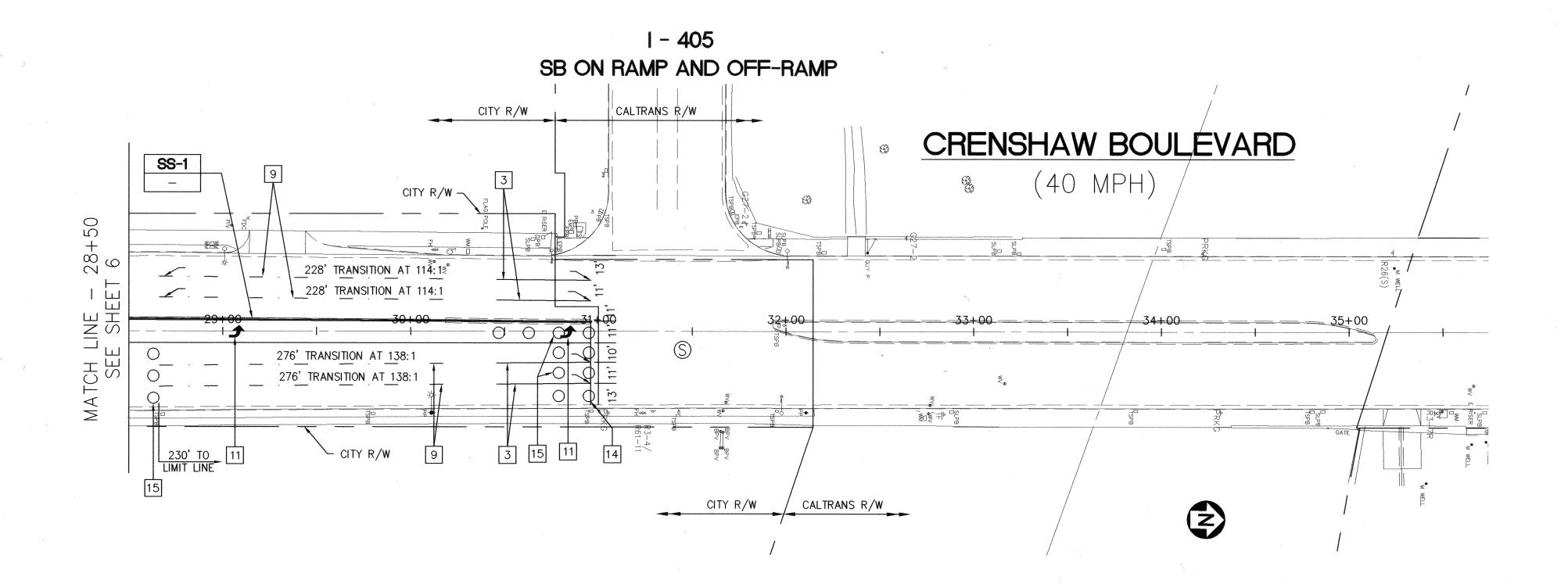
CITY OF TORRANCE
PUBLIC WORKS DEPARTMENT

APPROVED:

CRAIG BILEZERIAN DATE:
CITY ENGINEER
R.C.E. NO. 55339 EXP. 12/31/2014

SCALE: AS SHOWN SHEET 6 OF 32

PLAN NO. ST-1037



LEGEND:

<u>PROPOSED</u>

TYPE IV (L or R) PAVEMENT ARROW

TYPE VII (L or R) PAVEMENT ARROW

TRAFFIC STRIPE OR MARKING PAVEMENT LEGEND NOTED

______O OR _____

SAWCUT AND INDUCTIVE LOOP

 \Box S

TRAFFIC SIGN(S) SIGNALIZED INTERSECTION

EXISTING RED CURB

TRAFFIC SIGNAL PULL BOX

SAWCUT AND INSTALL NEW LOOPS REMOVE ALL EXISTING CONFLICTING TRAFFIC STRIPING, MARKING OR ARROW AS NOTED, INCLUDING RAISED PAVEMENT MARKERS. CURB MARKINGS TO BE

XX'

(RP)

LANE WIDTH FROM CENTER OF STRIP TO CENTER OF STRIPE OR TO FACE OF CURB

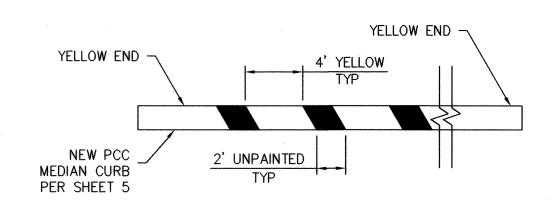
RC

PAINT (OR REPAINT) CURB FACE AND TOP OF CURB

REMOVED SHALL BE DONE BY WET SANDBLASTING.

STRIPING NOTES:

- 3 INSTALL 50' L.F. 4" WIDE SOLID WHITE LANE LINE.
- 9 INSTALL 4" WHITE LANE LINE PER CALTRANS STD PLAN A20A, DETAIL 9.
- 11 INSTALL TYPE IV PAVEMENT ARROW (L OR R) PER CALTRANS STD PLAN A24A.
- INSTALL 12" WHITE CROSSWALK (10' CLEAR) OR LIMIT LINE PER CALTRANS STD PLAN A24E.
- INSTALL CALTRANS TYPE "E" DETECTOR LOOPS AND SAWCUT TO EXISTING PULL BOX AS INDICATED PER CALTRANS STD PLAN ES-5B. SPLICE C TO EXISTING LEAD-INS.



NOTES:
1. ENDS OF PCC MEDIAN CURB SHALL BE PAINTED YELLOW

2. INSTALL TYPE Q(CA) MARKER AT EACH END

3. INSTALL YELLOW R.P.M.S ON TOP OF PCC MEDIAN CURB AT 24" SPACING

MEDIAN CURB STRIPING DETAIL SS-1 NOT TO SCALE ******

SIGNING AND STRIPING GENERAL NOTES:

- 1. INSTALLATION OF ALL STRIPING, SIGNS, PAVEMENT MARKERS, AND LEGENDS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. ALL STRIPING, SIGNS, PAVEMENT MARKERS, AND LEGENDS SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF THE FOLLOWING

CALIFORNIA MUTCD. LATEST EDITION CALTRANS STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION

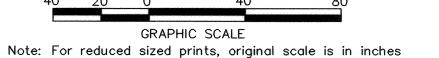
- ALL STRIPING, SIGNS, PAVEMENT MARKERS, AND LEGENDS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION AND/OR REMOVAL.
- 4. CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS, PAVEMENT MARKERS AND LEGENDS BY WET SANDBLASTING AND/OR GRINDING. ANY DEBRIS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
- 5. SIGN POSTS SHALL BE INSTALLED WITH SQUARE PREFORATED STEEL TUBING WITH BREAKAWAY BASE.
- 6. ALL RAISED MEDIAN NOSES SHALL BE PAINTED YELLOW, WITH GLASS BEADS PER SPECIFICATIONS.
- 7. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY THE ENGINEER OF WORK PRIOR TO ANY CHANGES BEING MADE IN THE FIELD.
- 8. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLANS SHALL BE NEW SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR, EXCEPT FOR EXISTING SIGNS SPECIFICALLY INDICATED TO BE RELOCATED OR TO REMAIN. ALL SIGNS SHALL BE MADE OF 3M DIAMOND GRADE CUBED, WITH PROTECTIVE OVERLAY FILM AND MATCHED COMPONENTS SYSTEM WARRANTY, (12 YEARS) ON 0.080 ALUMINUM WITH "TORRANCE" AND YEAR ON BORDER.
- 9. STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET UNLESS INDICATED OTHERWISE.
- 10. ALL STRIPING, LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS (EXCEPT WITHIN BIKE LANES) SHALL BE THERMOPLASTIC. CURB MARKINGS SHALL BE PAINT (2 COATS).
- 11. THE FINAL THERMOPLASTIC STRIPING AND PAVEMENT MARKINGS FOR EACH CONSTRUCTION PHASE SHALL BE INSTALLED AT THE COMPLETION OF EACH CONSTRUCTION PHASE AND WHEN DIRECTED BY THE ENGINEER.
- 12. ALL TYPE IV PAVEMENT MARKINGS AT THE CROSSWALK SHALL BE CENTERED BETWEEN THE FIRST AND SECOND LOOP DETECTORS.
- 13. INSTALLATION OF PERMANENT SIGNING AND STRIPING SHALL BE PERFORMED ONLY AFTER THE ENGINEER APPROVES THE STRIPING CAT-TRACKS. CONTACT THE ENGINEER AT (310) 618-3066 TO SCHEDULE AN INSPECTION AT LEAST 24 HOURS BEFORE COMPLETING LAYOUTS. THE ENGINEER OR DESIGNEE MUST APPROVE ANY CHANGES DUE TO PLAN DISCREPANCIES OR REVISIONS.
- 14. STRIPING SHALL BEGIN AND TERMINATE AT THE CENTER CORNER DELTA, AT THE LIMIT LINES, OR THE BACK OF THE CROSSWALK.
- 15. ALL NEW INDUCTIVE LOOPS SHALL BE TYPE E, CENTERED IN THE LANE OF TRAVEL, AND SPACED OUT 16' O.C. (TYPICAL). FRONT LOOPS SHALL BE INSTALLED 1' INTO THE LIMIT LINE OF CROSSWALK.
- 16. ALL NEW INDUCTIVE LOOPS SHALL BE CONNECTED TO PROVIDE A CALL TO THE PROPER PHASE PER THE EXISTING CONDITION. ALL LOOPS SHALL BE TESTED PRIOR TO ACCEPTANCE.

ST-1037

17. CONTRACTOR SHALL INSTALL A TYPE D BLUE REFLECTIVE MARKER AT EACH FIRE HYDRANT LOCATION WITHIN THE PROJECT LIMITS. THE REFLECTOR SHALL BE 6" FROM THE CENTERLINE STRIPE, OR APPROXIMATE CENTER OF THE PAVEMENT WHERE THERE IS NO CENTERLINE STRIPE, ON THE SIDE NEAREST THE FIRE HYDRANT (PER MUTCD 2012, CA SUPPLEMENT FIG 3B-102). MARKER LOCATION SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION.

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE Underground Service Alert

TWO WORKING DAYS BEFORE YOU DIG



CRENSHAW BOULEVARD REHABILITATION, T-22 (190TH STREET TO 182ND STREET)

> SIGNING AND STRIPING PLAN STA 28+50 TO 31+00

REV.	DATE	DESCRIPTION	BY	CHECKED	PROFESSIONAL BILEZEP CA	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT
					No. 55339 Exp. 12/31/14	DRAWN: SC APPROVED:
					OF CALIFORN	Se 10/8/2013
						CRAIG BILEZERIAN DATE: CITY ENGINEER R.C.E. NO. 55339 EXP. 12/31/2014
			-		·	SCALE: AS SHOWN SHEET 7 OF 32
`						PLAN NO. ST-1037

EXACT LOCATION OF ALL TRAFFIC CONTROL DEVICES SHALL BE AS DIRECTED BY ENGINEER BASED ON CONSTRUCTION CONDITIONS. ADDITIONAL WARNING OR CONSTRUCTION SIGNS MAY BE REQUIRED BY THE

ALL NIGHT TIME WORK SHALL BE APPROVED IN ADVANCE BY THE ENGINEER.

STREET CLOSURES SHALL BE APPROVED BY THE ENGINEER WHENEVER APPLICABLE. DETOUR PLANS SHALL BE SUBMITTED AND APPROVED BY THE CITY WHENEVER APPLICABLE. RESIDENTS/BUSINESSES SHALL BE NOTIFIED ONE WEEK PRIOR TO CONSTRUCTION.

PRESSURE SENSITIVE DETOUR GRADE TRAFFIC MARKING TAPE AND/OR TEMPORARY FLEXIBLE RAISED PAVEMENT MARKERS MAY BE REQUIRED TO SUPPLEMENT THE CHANNELIZING DEVICES, DRUMS, REFLECTORIZED SIGNS, PAINT, AND BARRICADES AS DIRECTED BY THE ENGINEER.

ALL CONFLICTING STRIPES, PAVEMENT MARKINGS, RAISED PAVEMENT MARKERS AND LEGENDS SHALL BE COMPLETELY REMOVED BY WET SANDBLASTING OR GRINDING PRIOR TO ANY CHANGE IN THE TRAFFIC PATTERN, IN COMPLIANCE WITH ALL APPLICABLE STORM WATER REGULATIONS. NO CONFLICTING STRIPES, PAVEMENT MARKINGS OR LEGENDS SHALL BE BLACKED OUT WITH PAINT.

ALL ADVANCE WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES.

ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE, UNLESS NOTED OTHERWISE. ALL W20-1, W20-5, AND W4-2 SIGNS SHALL BE MINIMUM 30" x 30".

(NOT USED)

10. ALL DRUMS SHALL BE 36" MINIMUM HEIGHT, PORTABLE, WITH REFLECTORIZED 4"-6" WHITE AND ORANGE STRIPES, WITH WEIGHTED BASES OR BALLAST RINGS. DRUMS SHALL BE MADE OF A FLEXIBLE MATERIAL, 18"-36" IN DIAMETER AND SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY. DRUMS FOR NIGHTTIME USE SHALL BE PROVIDED WITH FLASHING WARNING LIGHTS.

11. TYPE II BARRICADES MAY BE USED IN ADDITION TO THE DRUMS, AT THE DISCRETION OF THE CONTRACTOR, WHEN THEY ARE INTENDED TO PROVIDE ADDITIONAL EMPHASIS IN AREAS WHERE WORKERS ARE PRESENT.

12. USE AND PLACEMENT OF FLASHING ARROW BOARD(S) AND CHANGEABLE MESSAGE SIGN(S) SHALL BE AS DIRECTED BY THE ENGINEER.

13. THE CONTRACTOR SHALL MAINTAIN, ON A 24-HOUR BASIS, ALL SIGNS, DRUMS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC.

14. THE CONTRACTOR SHALL UTILIZE FLAGGERS DURING WORK HOURS AS DEEMED NECESSARY BY THE ENGINEER.

THE CONTRACTOR SHALL HAVE ALL SIGNS, DRUMS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION AND BEFORE ATTEMPTING TO SWITCH TO A SUBSEQUENT STAGE DURING WORK

16. THE CONTRACTOR SHALL PROVIDE PORTABLE CHANGEABLE MESSAGE SIGNS (P.C.M.S.) TO BE IN USE FOR THE ENTIRE DURATION OF WORK. USE, PLACEMENT AND FLASHING MESSAGE TEXT SHALL BE AS DIRECTED BY THE ENGINEER. PAYMENT IS INCLUDED IN THE UNIT PRICE FOR "PORTABLE CHANGEABLE MESSAGE SIGNS". REFER TO SPECIAL PROVISIONS FOR THE NUMBER OF PORTABLE CHANGEABLE MESSAGE SIGNS (P.C.M.S.).

17. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING BUSINESSES AND PROPERTY OWNERS.

CONSTRUCTION TRUCK TRAFFIC MERGING INTO TRAFFIC LANES SHALL BE DONE BY USE OF FLAGGER AND APPROPRIATE SIGNAGE AS DIRECTED BY ENGINEER.

19. FLASHING ARROW SIGNS (F.A.S.) AND PORTABLE CHANGEABLE MESSAGE SIGNS (P.C.M.S.) SHALL CONFORM TO THE SPECIAL PROVISIONS AND BE EITHER SOLAR OR BATTERY OPERATED. GASOLINE AND DIESEL POWERED F.A.S. AND P.C.M.S. ARE PROHIBITED.

20. NO TWO CONSECUTIVE CROSS STREETS SHALL BE SIMULTANEOUSLY CLOSED FOR CONSTRUCTION.

21. ALL WORK IN EACH STAGE SHALL BE COMPLETE BEFORE WORK IN ANOTHER STAGE MAY BEGIN.

22. NEW CONCRETE CURB AND GUTTER, SIDEWALKS, AND DRIVEWAYS SHALL BE COMPLETE AND IN PLACE PRIOR TO THE START OF ANY PAVEMENT RECONSTRUCTION.

23. TRAFFIC SIGNALS (EXISTING, NEW OR TEMPORARY) SHALL BE IN OPERATION AT ALL TIMES AT SIGNALIZED INTERSECTIONS.

24. ALL CONFLICTING SIGNAL HEADS SHALL BE COVERED DURING LONG TERM CLOSURE WHEN DIRECTED BY THE ENGINEER.

25. TEMPORARY "NO PARKING - TOW AWAY" SIGNS SHALL BE POSTED WITHIN AFFECTED CONSTRUCTION AREAS A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.

26. THE CONTRACTOR SHALL PROVIDE FOR 24 HOUR ACCESS TO ALL ADJACENT PROPERTIES, THIS SHALL INCLUDE BUT NOT BE LIMITED TO DRIVEWAYS, SIDE STREETS, AND WALKWAYS, EXCEPT AS INDICATED ON THESE PLANS AND IN THE SPECIFICATIONS. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE POSSIBLE TO ABUTTING PROPERTY OWNERS/OPERATORS.

27. ALL PROPERTIES THAT HAVE ACCESS ADJACENT TO THE WORK AREA SHALL BE NOTIFIED OF ACCESS RESTRICTIONS (IN WRITING 48 HOURS MINIMUM BEFORE START OF WORK). THE NOTIFICATION SHALL DESCRIBE THE ACCESS LIMITATIONS, DATES OF LIMITATION AND GIVE THE APPROXIMATE DATE AND TIME OF ACCESS RESTORATION. NO ACCESS SHALL BE LIMITED DURING NON-WORKING HOURS EXCEPT AS APPROVED BY THE ENGINEER. NO WORK IS PERMITTED ON SUNDAYS OR HOLIDAYS UNLESS APPROVED BY THE CITY.

28. FLASHING YELLOW BEACONS, TYPE "B", SHALL BE USED ON ALL W20-1 SIGNS, AND ALL TYPE III BARRICADES GUARDING THE WORK AREA OVERNIGHT.

TRAFFIC CONTROL GENERAL NOTES (CONTINUED):

29. THE CONTRACTOR SHALL PROVIDE FOR SAFE PEDESTRIAN ACCESS AT ALL TIMES. TEMPORARY PEDESTRIAN ACCESS SHALL BE 5' MINIMUM WIDTH. ANY AND ALL PEDESTRIAN DETOUR ROUTES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE DETOUR ROUTE IS ESTABLISHED.

30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF TRAFFIC SIGNAL LOOP-SENSORS AND SIGNAL AND INTERCONNECT CONDUITS, WHERE DAMAGE IS CAUSED BY THE CONTRACTOR'S OPERATION, THE CONTRACTOR SHALL REPLACE DAMAGED CITY FACILITY AT NO COST TO

31. THE FOLLOWING AGENCIES SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY DETOUR AND/OR CONSTRUCTION ACTIVITIES.

> CITY OF TORRANCE POLICE (GIVE LOCATION AND DURATION)

(310) 781-6900 (310) 618-5557 (310) 781-7042

TRAFFIC STAGING SHEET INDEX

FIRE DEPARTMENT

STAGE	<u>WORK</u>	<u>SHEETS</u>
	TRAFFIC CONTROL PLAN CONSTRUCTION STAGE OVERVIEW AND TYPICAL SECTIONS	9
1 & 3	FINAL ROADWAY PAVING, SIGNING, STRIPING, AND TRAFFIC SIGNAL LOOPS	10-12
2 & 4	FINAL ROADWAY PAVING, SIGNING, STRIPING, AND TRAFFIC SIGNAL LOOPS	13–15

TRAFFIC SIGN LEGEND



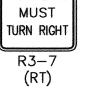




TRAFFIC MERGE

W4-7 (RT)



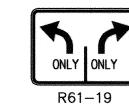


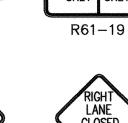
WORK



LANE CLOSED AHEAD

W20-5







LEGEND

I TYPE II BARRICADE

WITH FLASHER

TYPE III BARRICADE

ON BARRICADE

TYPE II BARRICADE,

- REFLECTORIZED DRUM FLASHING ARROW SIGN
- WORK AREA

----> DIRECTION OF TRAFFIC (NOT tage C30(CA), INSTALL SIGN (C30(CA), TYP)

A PAVEMENT MARKING) SIGNALIZED INTERSECTION

4 SIGN (PER MUTCD CODE)

THIGH LEVEL WARNING DEVICE

PRIVATE DRIVEWAY

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

CONSTRUCTION NOTES

INSTALL PORTABLE CHANGEABLE MESSAGE SIGN ONE WEEK PRIOR TO ANY CONSTRUCTION, COORDINATE EXACT LOCATION AND VERBAGE WITH ENGINEER.

PORTABLE CHANGABLE MESSAGE SIGNS:

1. CONTRACTOR SHALL PROGRAM EACH SCREEN OF ALL PORTABLE CHANGABLE MESSAGE SIGNS TO FLASH FOR TWO (2) SECONDS.

* ONE WEEK PRIOR								T	TO CONSTRUCTION: *						* DURING CONSTRUCTION:								:								
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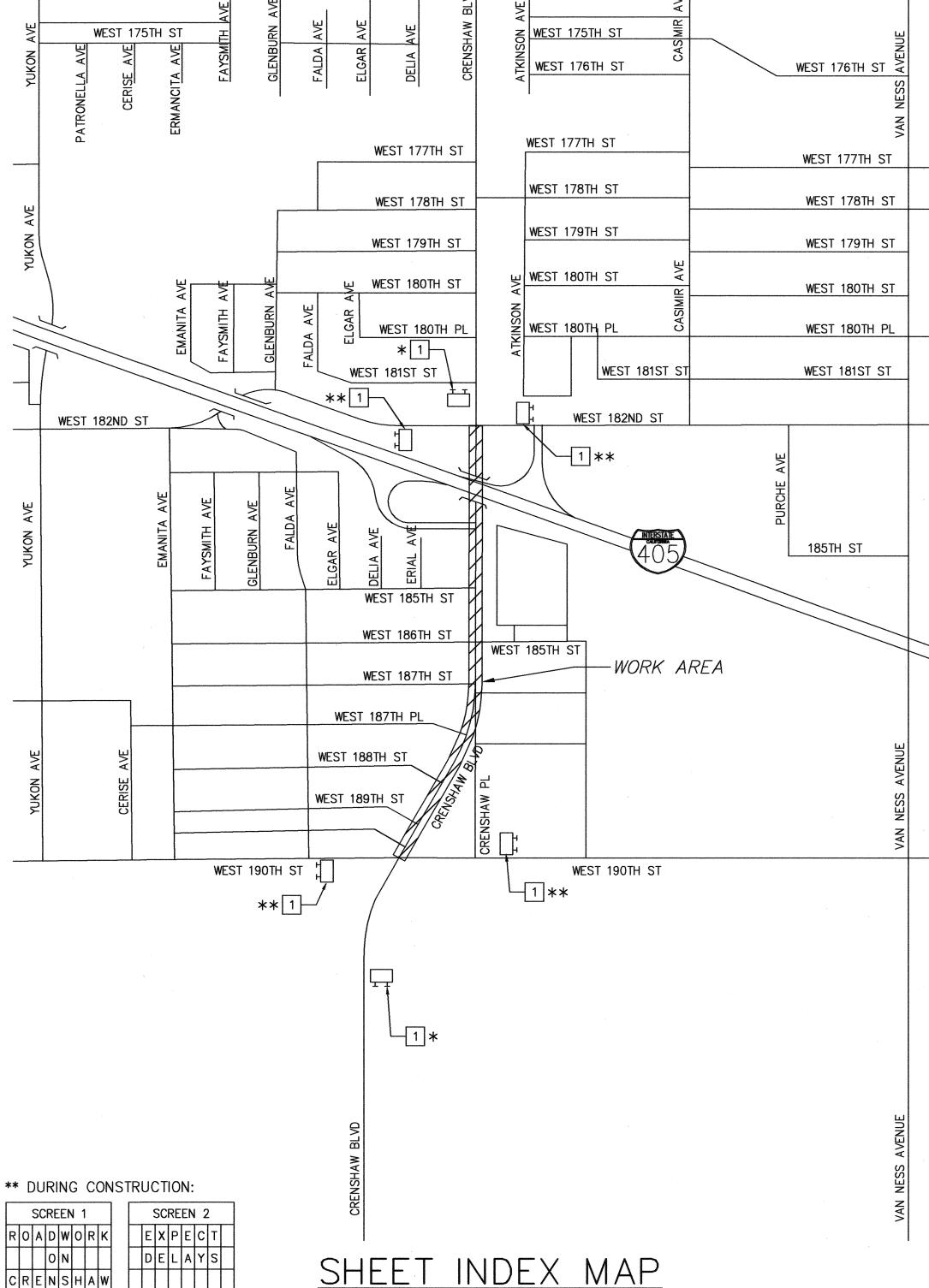
SCREEN 1 SCREEN 2 E X P E C T
D E L A Y S ROADWORK A H E A D

SCREEN 1 SCREEN 2 M O N D A Y
X X / X X / X X CRENSHAW ROADWORK
BEGINS

** ONE WEEK PRIOR TO CONSTRUCTION:

SCREEN 1 SCREEN 2 ROADWORK EXPEC1

ARTESIA BLVD



ARTESIA BLVD



GRAPHIC SCALE

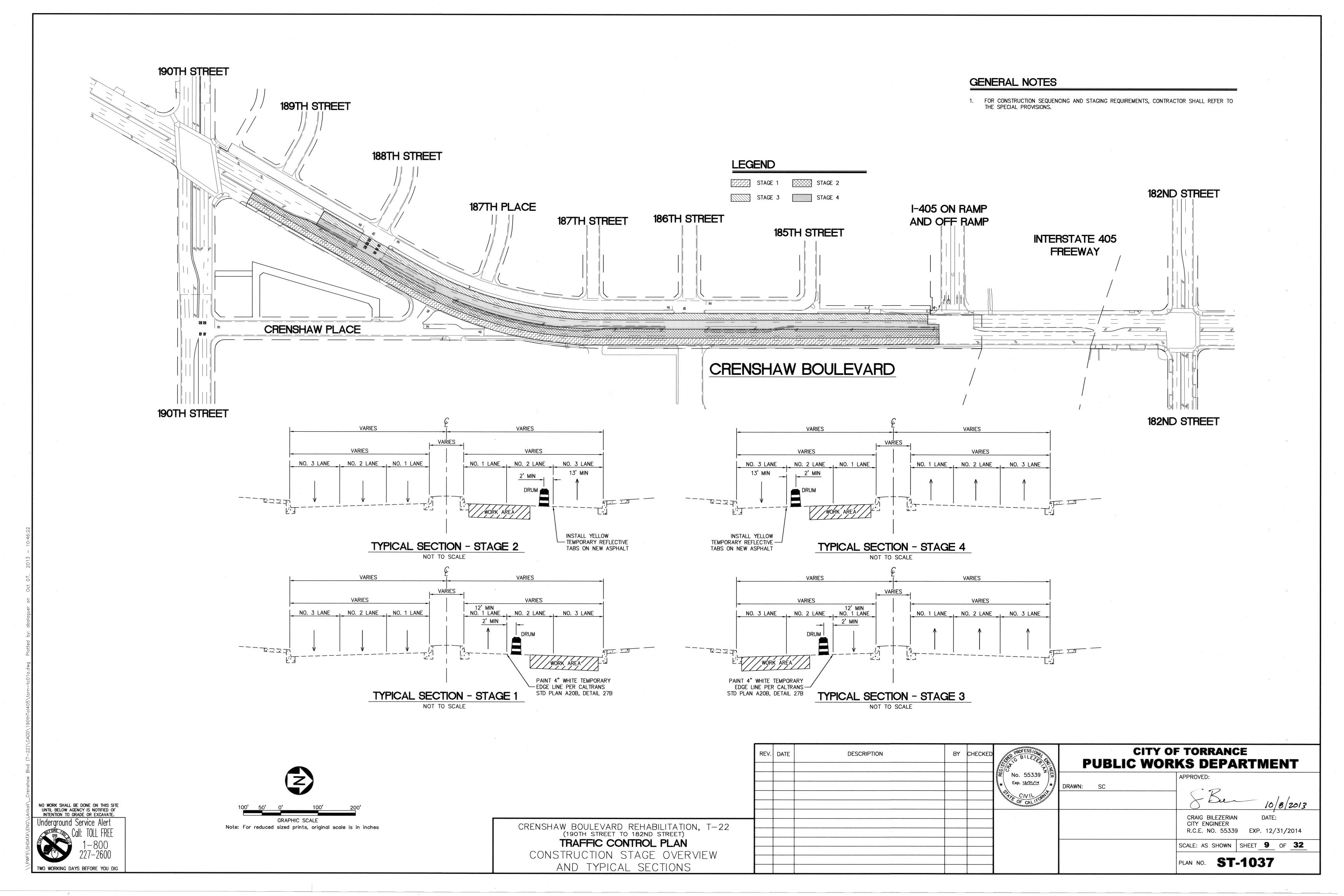
Note: For reduced sized prints, original scale is in inches

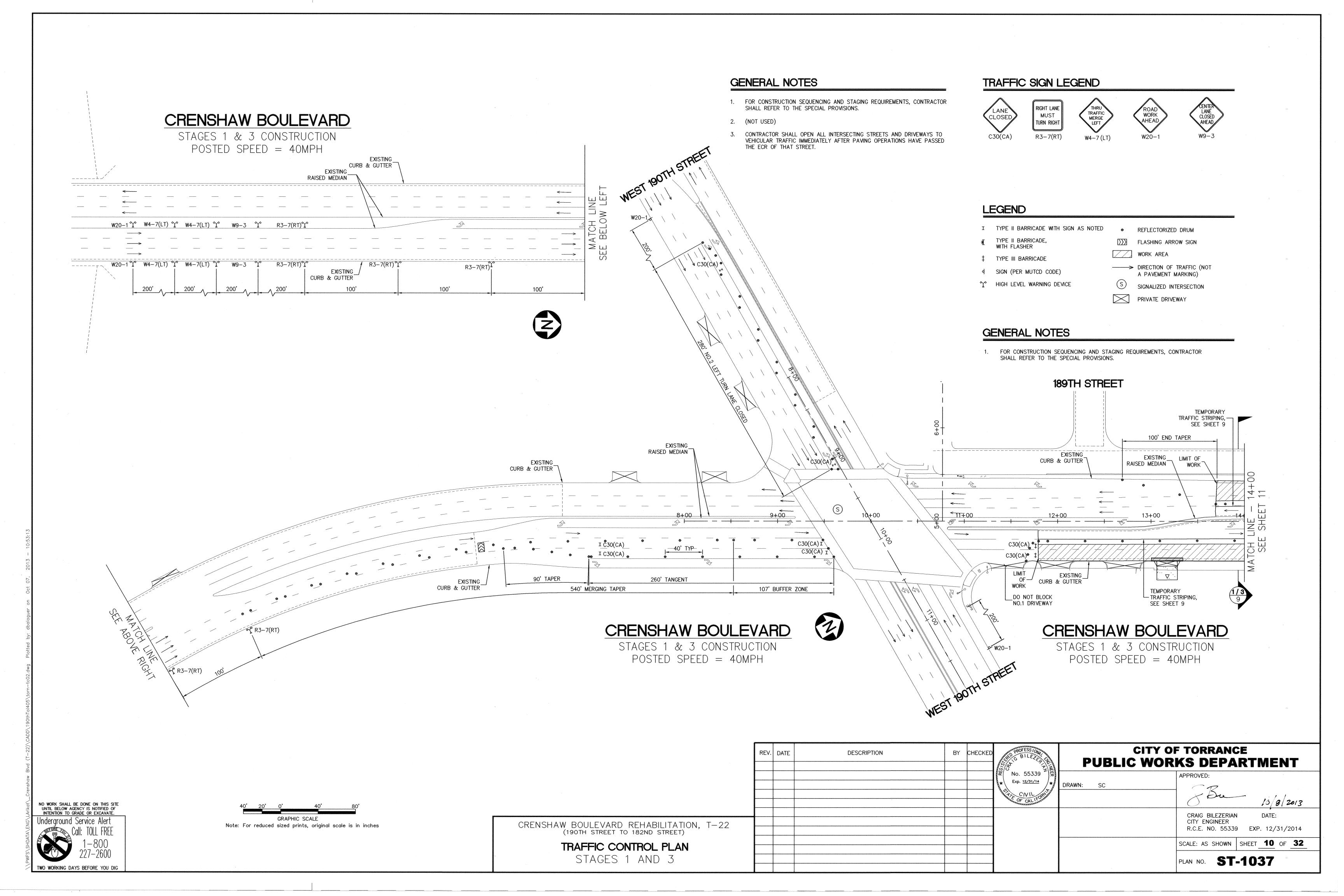
CRENSHAW BOULEVARD REHABILITATION, T-22(190TH STREET TO 182ND STREET)

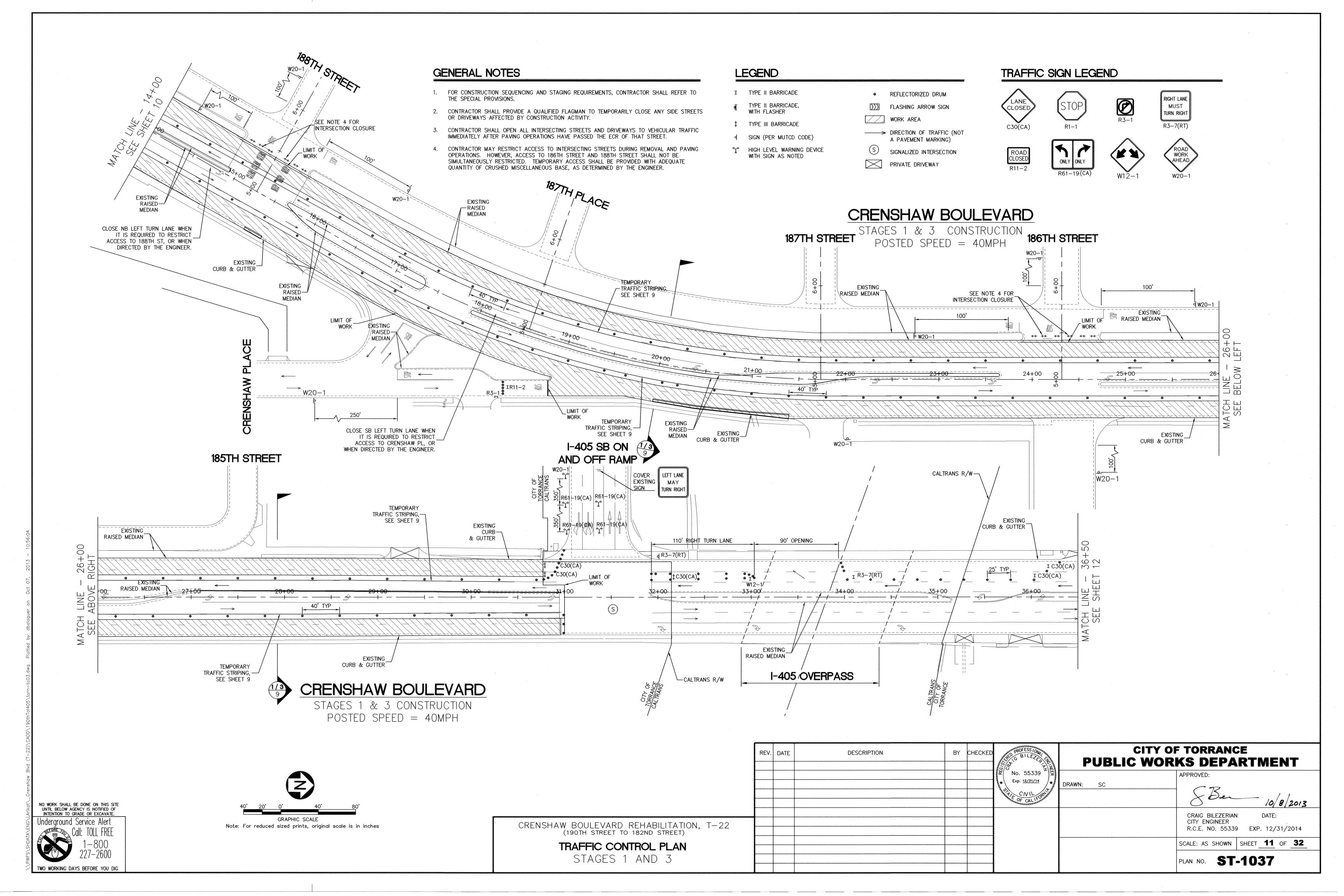
TRAFFIC CONTROL PLAN GENERAL NOTES AND PCMS PLAN

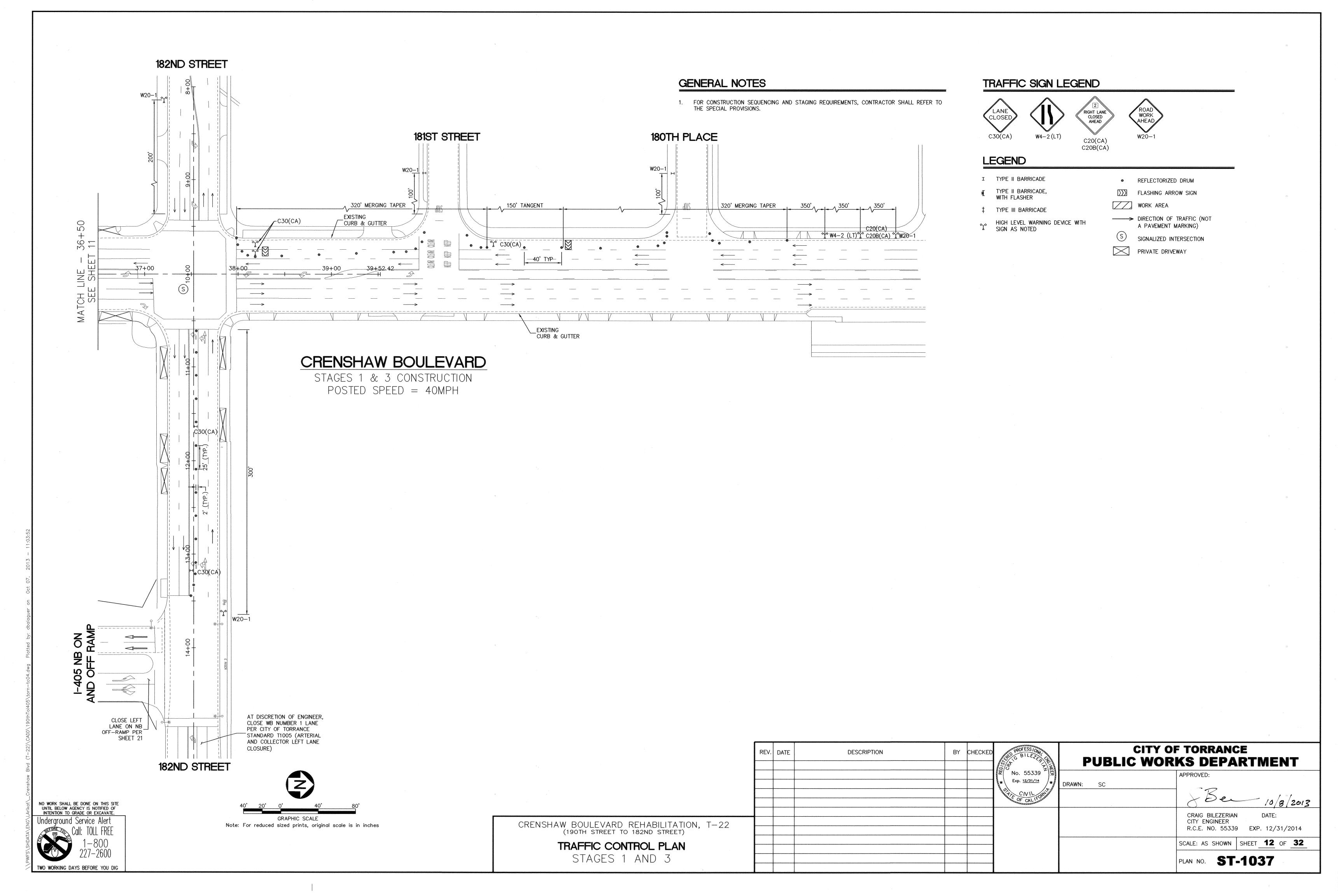
·.	DATE	DESCRIPTION	BY	CHECKED	OROFESSIONAL GROUP CONTROL OF THE CO		F TORRANCE KS DEPARTMENT
					No. 55339 Z		APPROVED:
					OF CALIFORNIE	DRAWN: SC	SBur 10/8/2013
							CRAIG BILEZERIAN DATE: CITY ENGINEER
							R.C.E. NO. 55339 EXP. 12/31/2014
					,		SCALE: AS SHOWN SHEET 8 OF 32
							PLAN NO. ST-1037

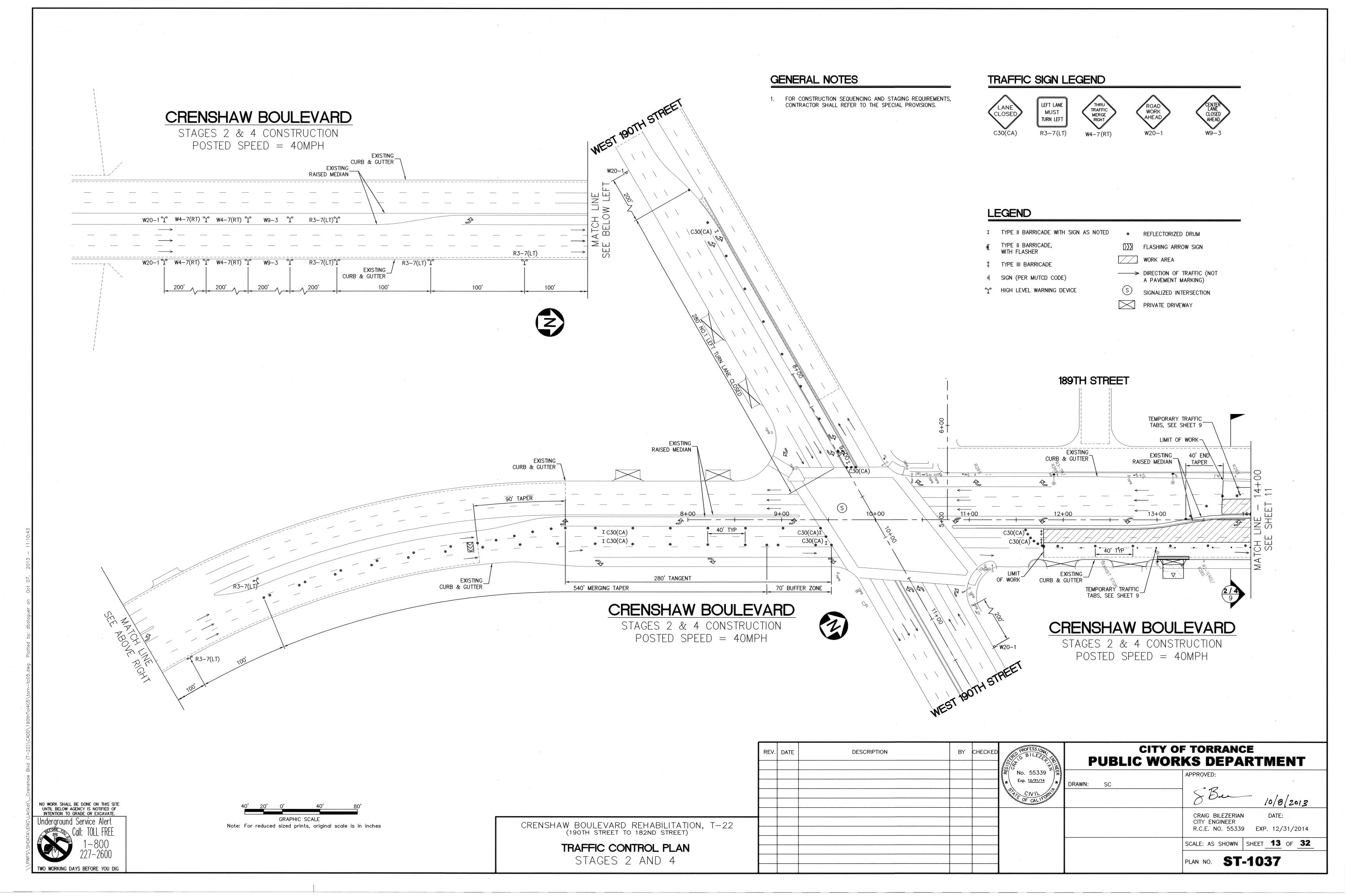
UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE. Underground Service Alert TWO WORKING DAYS BEFORE YOU DIG

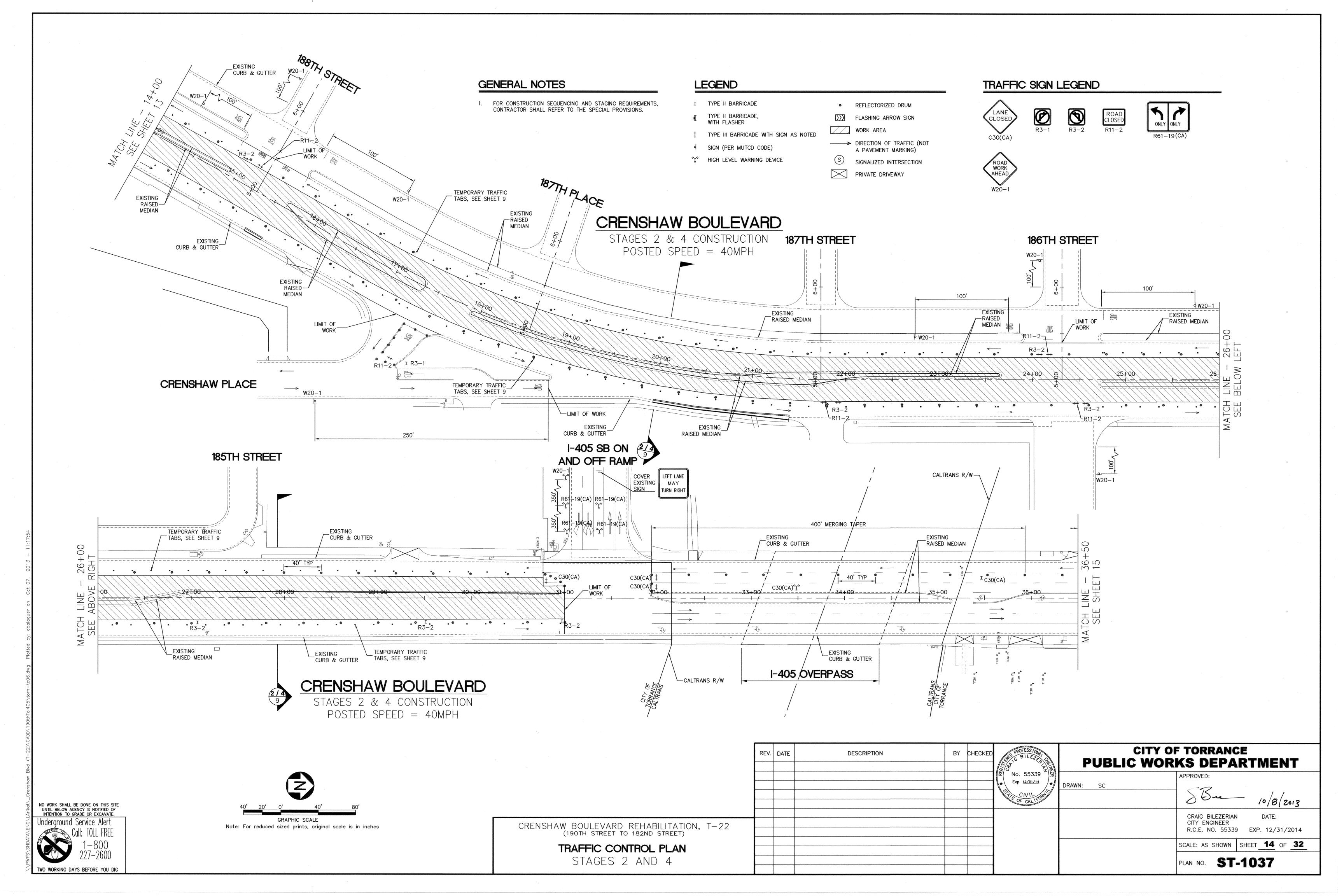


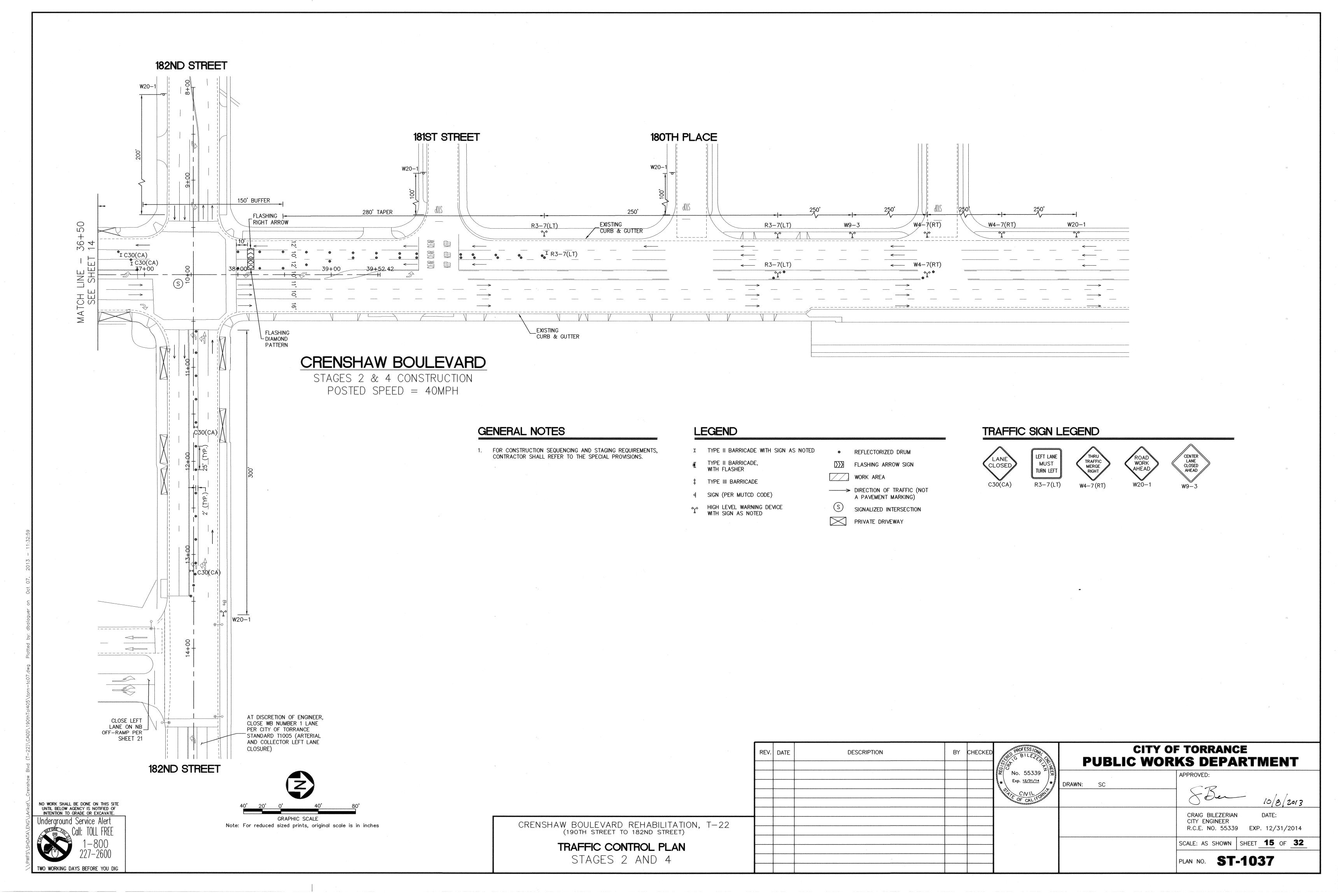


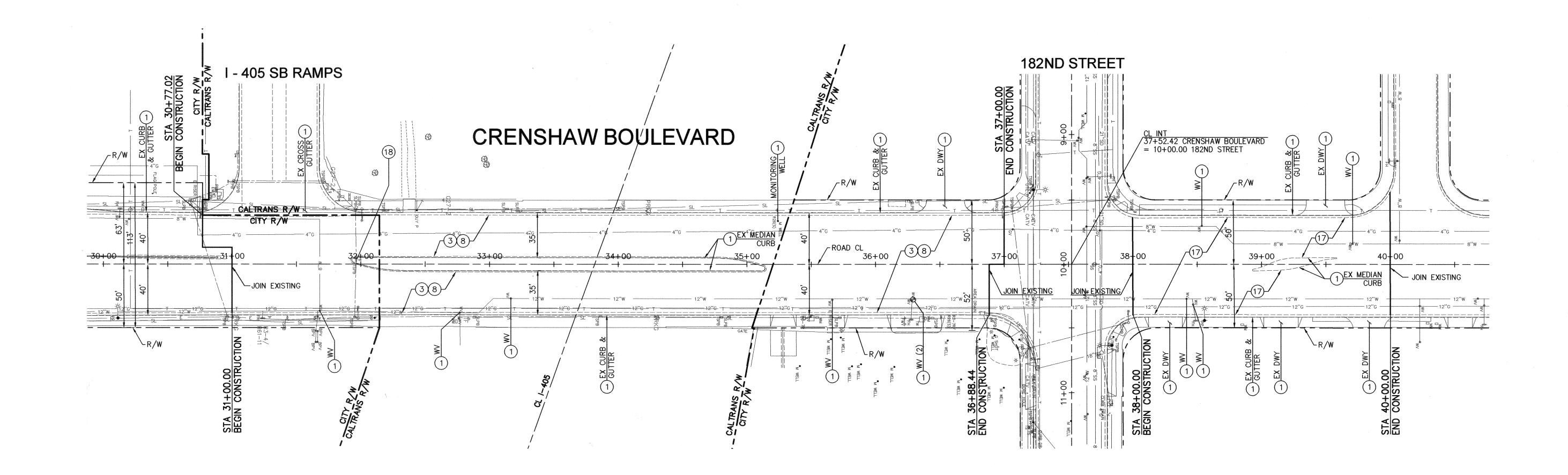












CONSTRUCTION NOTES:

- 1) PROTECT IN PLACE (AS NOTED)
- (3) COLD MILL EXISTING ASPHALT CONCRETE PAVEMENT (DEPTH VARIES FROM 5" TO 7" THICK) AND REMOVE UNCLASSIFIED MATERIALS (DEPTH VARIES FROM 0" TO 2" THICK), FOR TOTAL REMOVAL OF 7"
- (8) CONSTRUCT 3" ASPHALT CONCRETE (C2-PG64-10) SURFACE COURSE OVER 4" ASPHALT CONCRETE (B-PG64-10) BASE COURSE
- COLDMILL EXISTING ASPHALT CONCRETE PAVEMENT (DEPTH= 1.5" THICK) AND CONSTRUCT 1.5" ASPHALT CONCRETE (C2-PG64-10) OVERLAY
- (18) REMOVE EXISTING AND FURNISH AND INSTALL NEW TRAFFIC SIGNAL PULL BOX PER CALTRANS STANDARD PLAN ES-8A PRIOR TO PAVERS INSTALLATION

LEGEND

— CTV — EXISTING CATV ----SS--- EXISTING SANITARY SEWER —— E — EXISTING ELECTRICAL — T — EXISTING TELECOMMUNICATION ——G —— EXISTING GAS ----W---- EXISTING WATER ----SD---- EXISTING STORM DRAIN

----- EXISTING TRAFFIC CONDUIT

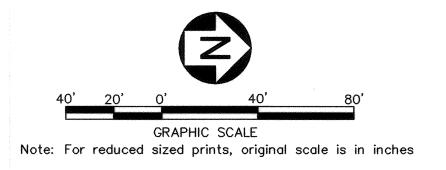
GENERAL NOTE:

1. FOR TRAFFIC DETECTOR LOOP LOCATIONS REFER TO SIGNING AND STRIPING

NOTE: ALL UTILITIES AND OTHER FEATURES BEHIND BACK OF CURB SHALL BE PROTECTED IN PLACE.

NOTE TO CONTRACTOR:

LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND DEPTH IS UNKNOWN.
CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.



CRENSHAW BOULEVARD REHABILITATION, T-22 (190TH STREET TO 182ND STREET)

ROADWAY PLAN

STA 30+00 TO STA 40+00

CITY OF TORRANCE REV. DATE DESCRIPTION BY CHECKE **PUBLIC WORKS DEPARTMENT** APPROVED: Exp. 12/31/14 DRAWN: DB CRAIG BILEZERIAN CITY ENGINEER R.C.E. NO. 55339 EXP. 12/31/2014 SCALE: AS SHOWN SHEET 16 OF 32 PLAN NO. ST-1037

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE. Underground Service Alert TWO WORKING DAYS BEFORE YOU DIG

SIGNING AND STRIPING GENERAL NOTES:

- INSTALLATION OF ALL STRIPING, SIGNS, PAVEMENT MARKERS, AND LEGENDS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL STRIPING, SIGNS, PAVEMENT MARKERS, AND LEGENDS SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF THE FOLLOWING
 - CALIFORNIA MUTCD, LATEST EDITION CALTRANS STANDARD PLANS AND SPECIFICATIONS, DATED MAY 2006
- 3. ALL STRIPING, SIGNS, PAVEMENT MARKERS, AND LEGENDS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION AND/OR
- 4. CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS, PAVEMENT MARKERS AND LEGENDS BY WET SANDBLASTING AND/OR GRINDING. ANY DEBRIS SHALL BE PROMPTLY REMOVED BY THE
- 5. SIGN POSTS SHALL BE INSTALLED WITH SQUARE PREFORATED STEEL TUBING WITH BREAKAWAY BASE.
- 6. ALL RAISED MEDIAN NOSES SHALL BE PAINTED YELLOW, WITH GLASS BEADS PER SPECIFICATIONS.
- 7. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY THE ENGINEER OF WORK PRIOR TO ANY CHANGES BEING MADE IN THE FIELD.
- 8. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLANS SHALL BE NEW SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR, EXCEPT FOR EXISTING SIGNS SPECIFICALLY INDICATED TO BE RELOCATED OR TO REMAIN. ALL SIGNS SHALL BE MADE OF 3M DIAMOND GRADE CUBED, WITH PROTECTIVE OVERLAY FILM AND MATCHED COMPONENTS SYSTEM WARRANTY, (12 YEARS) ON 0.080 ALUMINUM WITH "TORRANCE" AND YEAR ON BORDER.
- 9. STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET UNLESS INDICATED OTHERWISE.
- 10. ALL STRIPING, LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS (EXCEPT WITHIN BIKE LANES) SHALL BE THERMOPLASTIC. CURB MARKINGS SHALL BE PAINT (2 COATS).
- 11. THE FINAL THERMOPLASTIC STRIPING AND PAVEMENT MARKINGS FOR EACH CONSTRUCTION PHASE SHALL BE INSTALLED AT THE COMPLETION OF EACH CONSTRUCTION PHASE AND WHEN DIRECTED BY THE ENGINEER.
- 12. ALL TYPE IV PAVEMENT MARKINGS AT THE CROSSWALK SHALL BE CENTERED BETWEEN THE FIRST AND SECOND LOOP DETECTORS.

SIGNING AND STRIPING GENERAL NOTES (CONT):

- 13. INSTALLATION OF PERMANENT SIGNING AND STRIPING SHALL BE PERFORMED ONLY AFTER THE ENGINEER APPROVES THE STRIPING CAT-TRACKS. CONTACT THE ENGINEER AT (310) 618-3066 TO SCHEDULE AN INSPECTION AT LEAST 24 HOURS BEFORE COMPLETING LAYOUTS. THE ENGINEER OR DESIGNEE MUST APPROVE ANY CHANGES DUE TO PLAN DISCREPANCIES OR REVISIONS.
- THE BACK OF THE CROSSWALK.

14. STRIPING SHALL BEGIN AND TERMINATE AT THE CENTER CORNER DELTA, AT THE LIMIT LINES, OR

- OUT 16' O.C. (TYPICAL). FRONT LOOPS SHALL BE INSTALLED 1' INTO THE LIMIT LINE OF CROSSWALK.
- 16. ALL NEW INDUCTIVE LOOPS SHALL BE CONNECTED TO PROVIDE A CALL TO THE PROPER PHASE PER THE EXISTING CONDITION. ALL LOOPS SHALL BE TESTED PRIOR TO ACCEPTANCE.
- 17. CONTRACTOR SHALL INSTALL A TYPE D BLUE REFLECTIVE MARKER AT EACH FIRE HYDRANT LOCATION WITHIN THE PROJECT LIMITS. THE REFLECTOR SHALL BE 6" FROM THE CENTERLINE STRIPE, OR APPROXIMATE CENTER OF THE PAVEMENT WHERE THERE IS NO CENTERLINE STRIPE, ON THE SIDE NEAREST THE FIRE HYDRANT (PER MUTCD 2012, CA SUPPLEMENT FIG 3B-102). MARKER LOCATION SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION.

SIGNING AND STRIPING NOTES:

- 3 INSTALL 50' L.F. 4" WIDE SOLID WHITE LANE LINE.
- 9 INSTALL 4" WHITE LANE LINE PER CALTRANS STD PLAN A20A, DETAIL 9.
- 11 INSTALL TYPE IV PAVEMENT ARROW (L OR R) PER CALTRANS STD PLAN A24A.
- INSTALL 12" WHITE CROSSWALK (10' CLEAR) OR LIMIT LINE PER CALTRANS STD PLAN A24E.
- INSTALL CALTRANS TYPE "E" DETECTOR LOOPS AND SAWCUT TO EXISTING PULL BOX AS INDICATED PER CALTRANS STD PLAN ES-5B. SPLICE SC TO EXISTING LEAD-INS.
- 22 INSTALL 4" DOUBLE YELLOW CENTER LINE PER CALTRANS STD PLAN A20A, DETAIL 22.
- 19 INSTALL YELLOW MEDIAN ISLAND PER CALTRANS STD PLAN A20B, DETAIL 29.
- INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS STD PLAN A20D, DETAIL 38, LINE LENGTH AS SHOWN.

LEGEND:

SC

TYPE IV (L or R) PAVEMENT ARROW TYPE VII (L or R) PAVEMENT ARROW TRAFFIC STRIPE OR MARKING PAVEMENT LEGEND SAWCUT AND INDUCTIVE LOOP OR 🗀 TRAFFIC SIGN(S) SIGNALIZED INTERSECTION TRAFFIC SIGNAL PULL BOX

> (RP) REMOVE ALL EXISTING CONFLICTING TRAFFIC STRIPING, MARKING OR ARROW AS NOTED, INCLUDING RAISED PAVEMENT MARKERS. CURB MARKINGS TO BE REMOVED SHALL BE DONE BY WET SANDBLASTING.

SAWCUT AND INSTALL NEW LOOPS

XX' LANE WIDTH FROM CENTER OF STRIP TO CENTER OF STRIPE OR TO FACE OF CURB

EXISTING RED CURB

PAINT (OR REPAINT) CURB FACE AND TOP OF CURB

GRAPHIC SCALE Note: For reduced sized prints, original scale is in inches

CRENSHAW BOULEVARD REHABILITATION, T-22

REV. DATE

DESCRIPTION

BY CHECKE

Exp. 12/31/14

CITY OF TORRANCE **PUBLIC WORKS DEPARTMENT** No. 55339

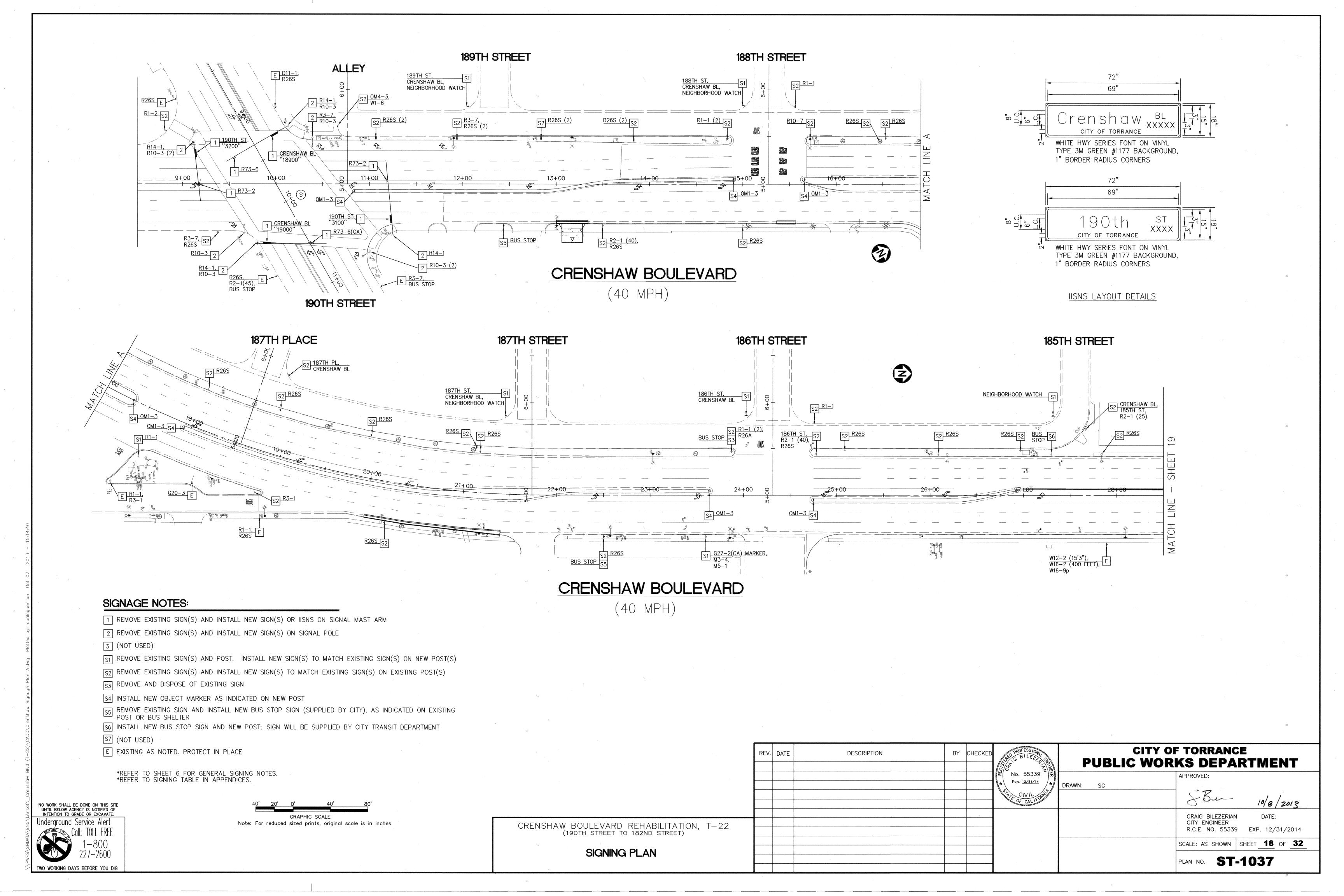
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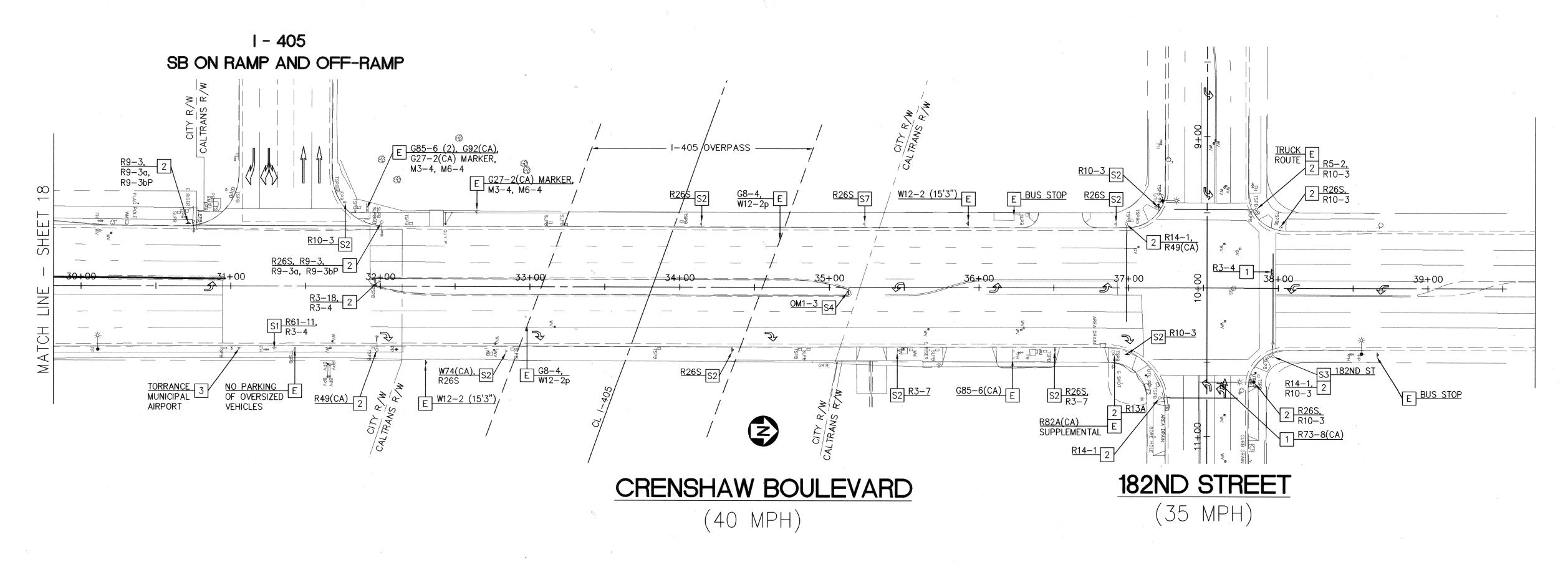
PLAN NO. **ST-1037**

SCALE: AS SHOWN SHEET 17 OF 32

STRIPING PLAN STA 30+00 TO STA 40+00

(190TH STREET TO 182ND STREET)

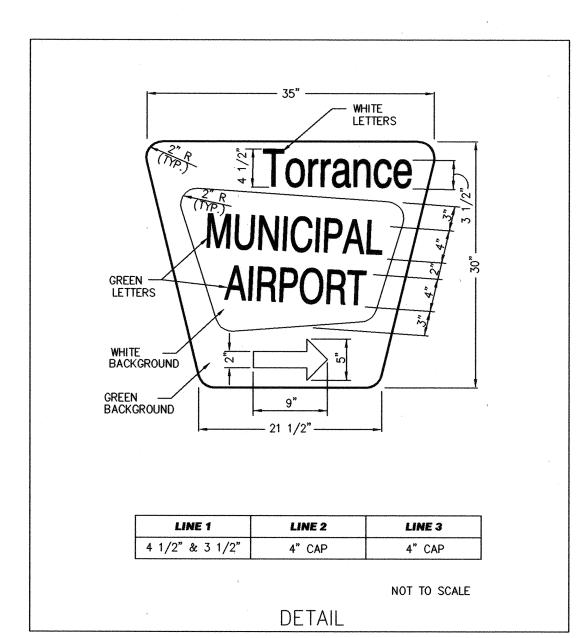




SIGNAGE NOTES:

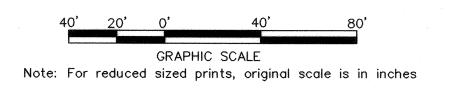
- 1 REMOVE EXISTING SIGN(S) AND INSTALL NEW SIGN(S) OR IISNS ON SIGNAL MAST ARM
- 2 REMOVE EXISTING SIGN(S) AND INSTALL NEW SIGN(S) ON SIGNAL POLE
- 3 REMOVE EXISTING AIRPORT SIGN AND INSTALL NEW AIRPORT SIGN PER DETAIL HEREON
- [S1] REMOVE EXISTING SIGN(S) AND POST. INSTALL NEW SIGN(S) TO MATCH EXISTING SIGN(S) ON NEW POST(S)
- [S2] REMOVE EXISTING SIGN(S) AND INSTALL NEW SIGN(S) TO MATCH EXISTING SIGN(S) ON EXISTING POST(S)
- S3 REMOVE AND DISPOSE OF EXISTING SIGN
- S4 INSTALL NEW OBJECT MARKER AS INDICATED ON NEW POST
- S5 (NOT USED)
- S6 (NOT USED)
- S7 REMOVE AND DISPOSE OF EXISTING SIGN AND POST
- E EXISTING AS NOTED. PROTECT IN PLACE

*REFER TO SHEET 6 FOR GENERAL SIGNING NOTES.
*REFER TO SIGNING TABLE IN APPENDICES.



NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE. Underground Service Alert

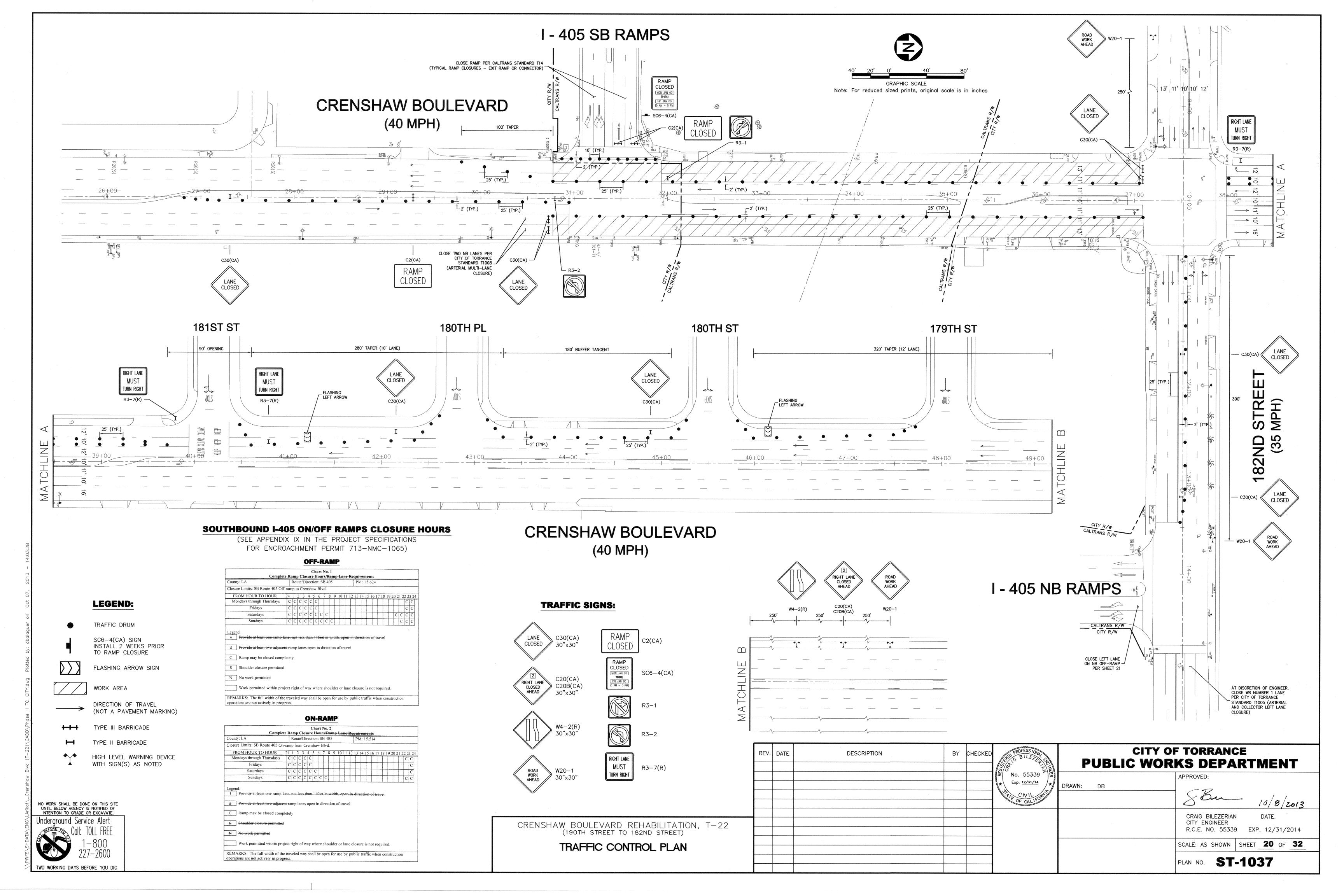
TWO WORKING DAYS BEFORE YOU DIG

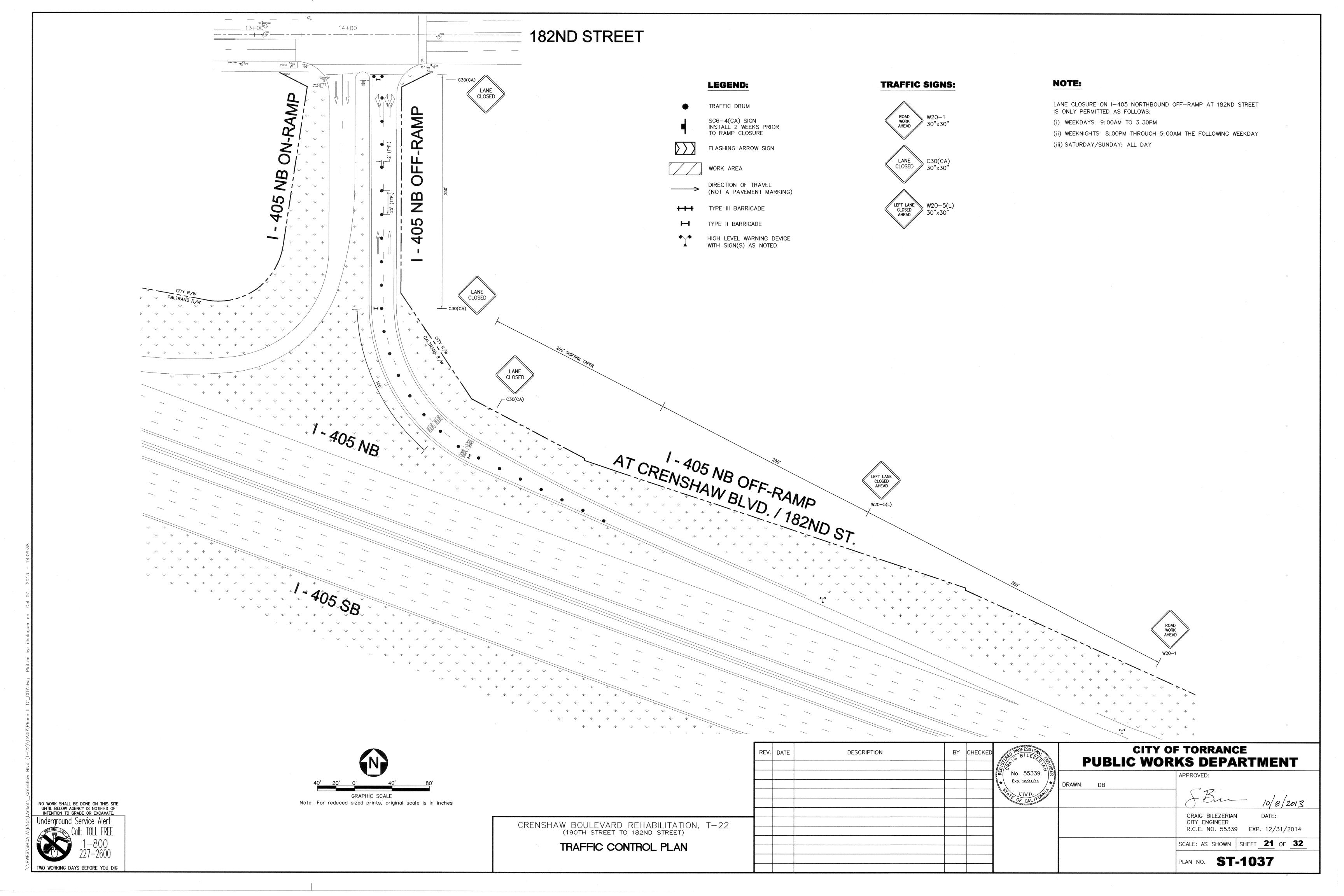


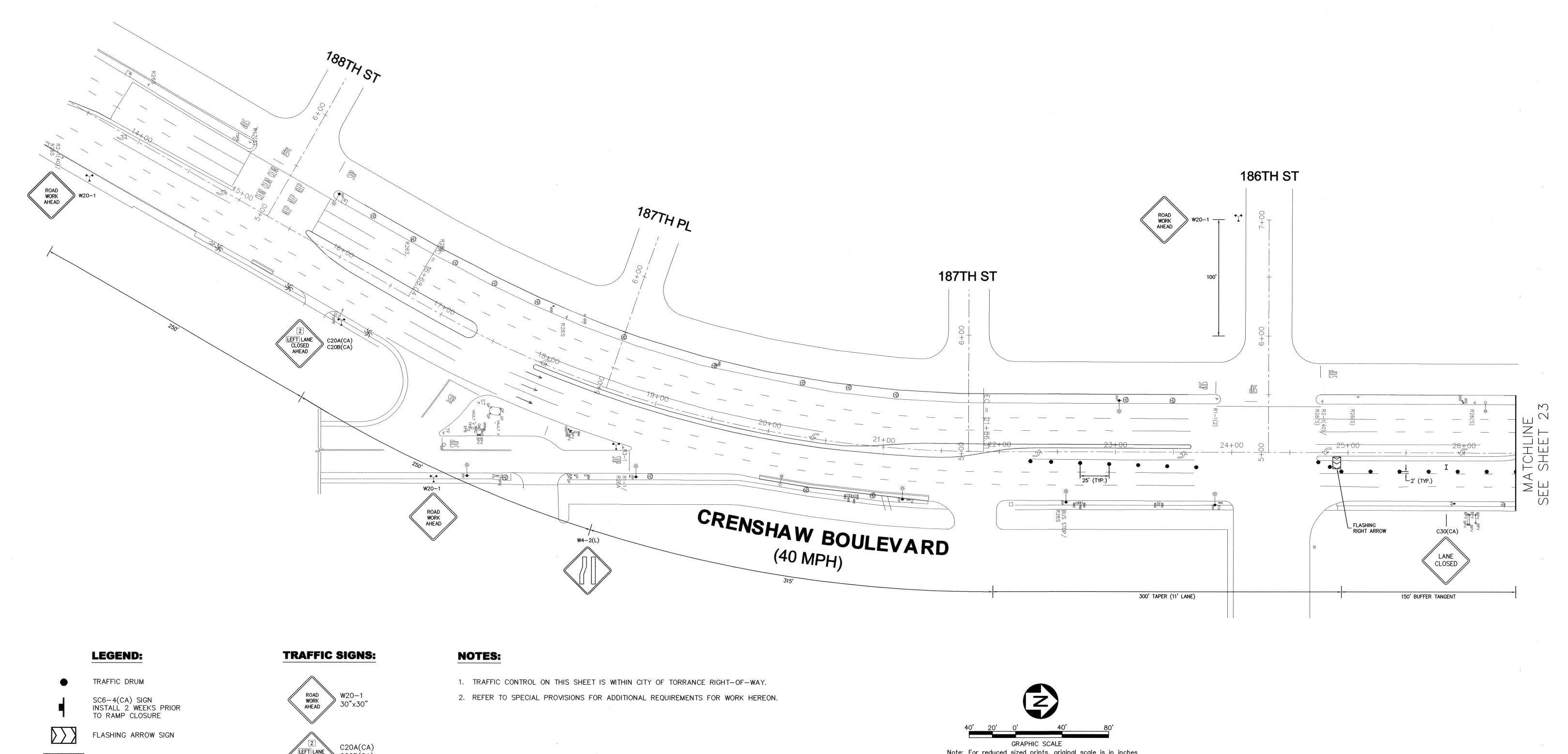
CRENSHAW BOULEVARD REHABILITATION, T-22 (190TH STREET TO 182ND STREET) SIGNING PLAN

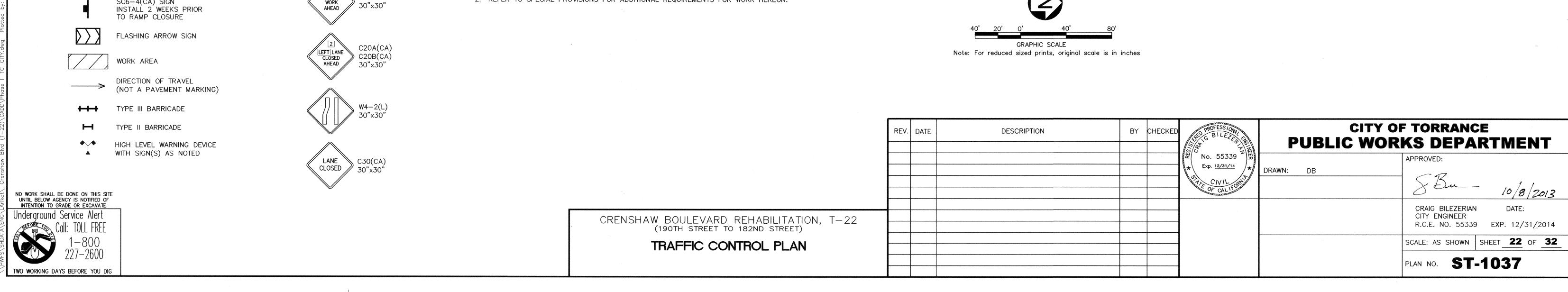
DATE	DESCRIPTION	BY	CHECKED	PROFESSIONAL GROSS OF THE PROFESSIONAL GROSS	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT
			1	No. 55339 Z Exp. 12/31/14 ** ** ** ** ** ** ** ** **	DRAWN: SC SPACE 10/8/2013
					CRAIG BILEZERIAN DATE: CITY ENGINEER R.C.E. NO. 55339 EXP. 12/31/2014
					SCALE: AS SHOWN SHEET 19 OF 32 PLAN NO. ST-1037
		 			FLAN NO. 31-103/

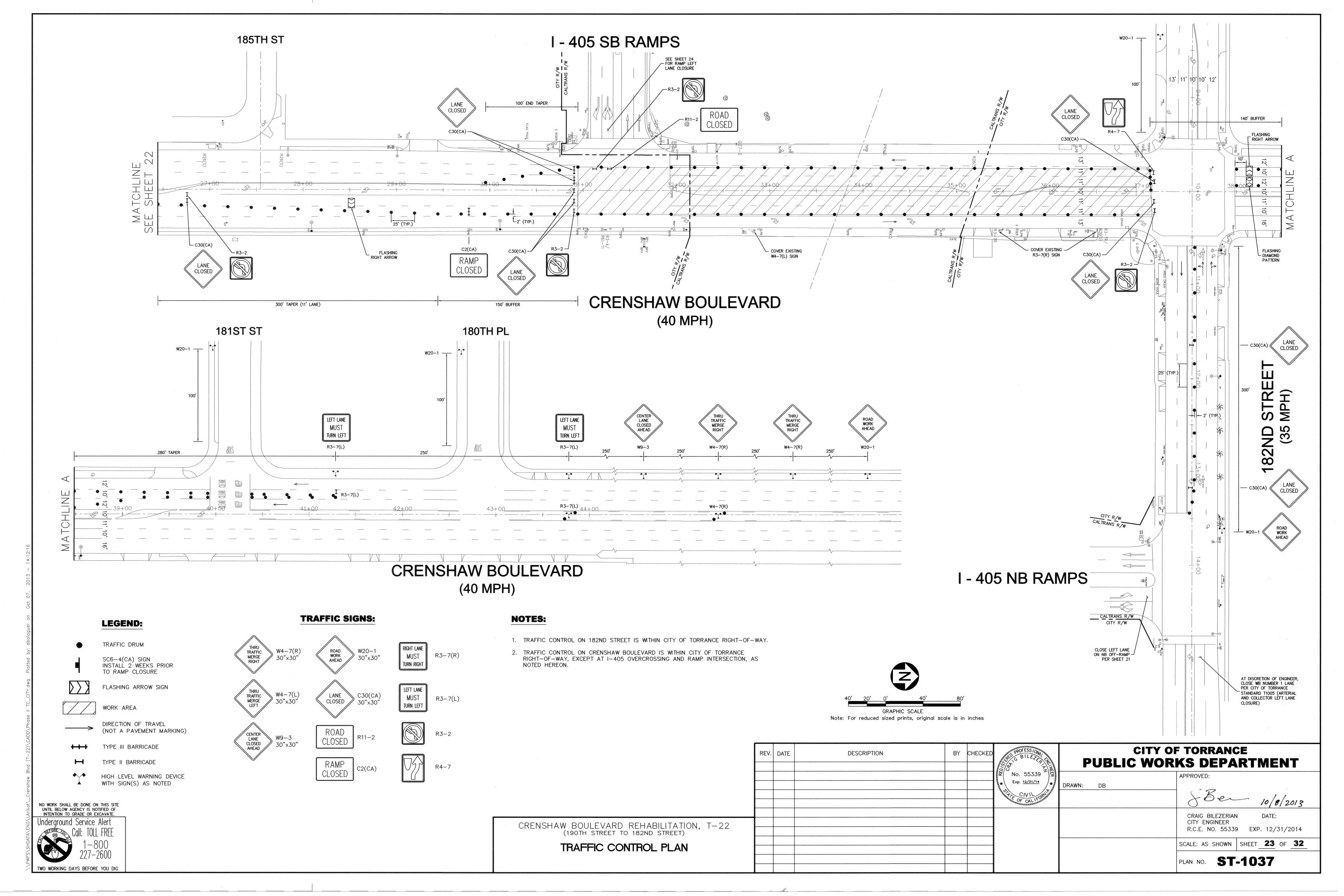
10/8/2013

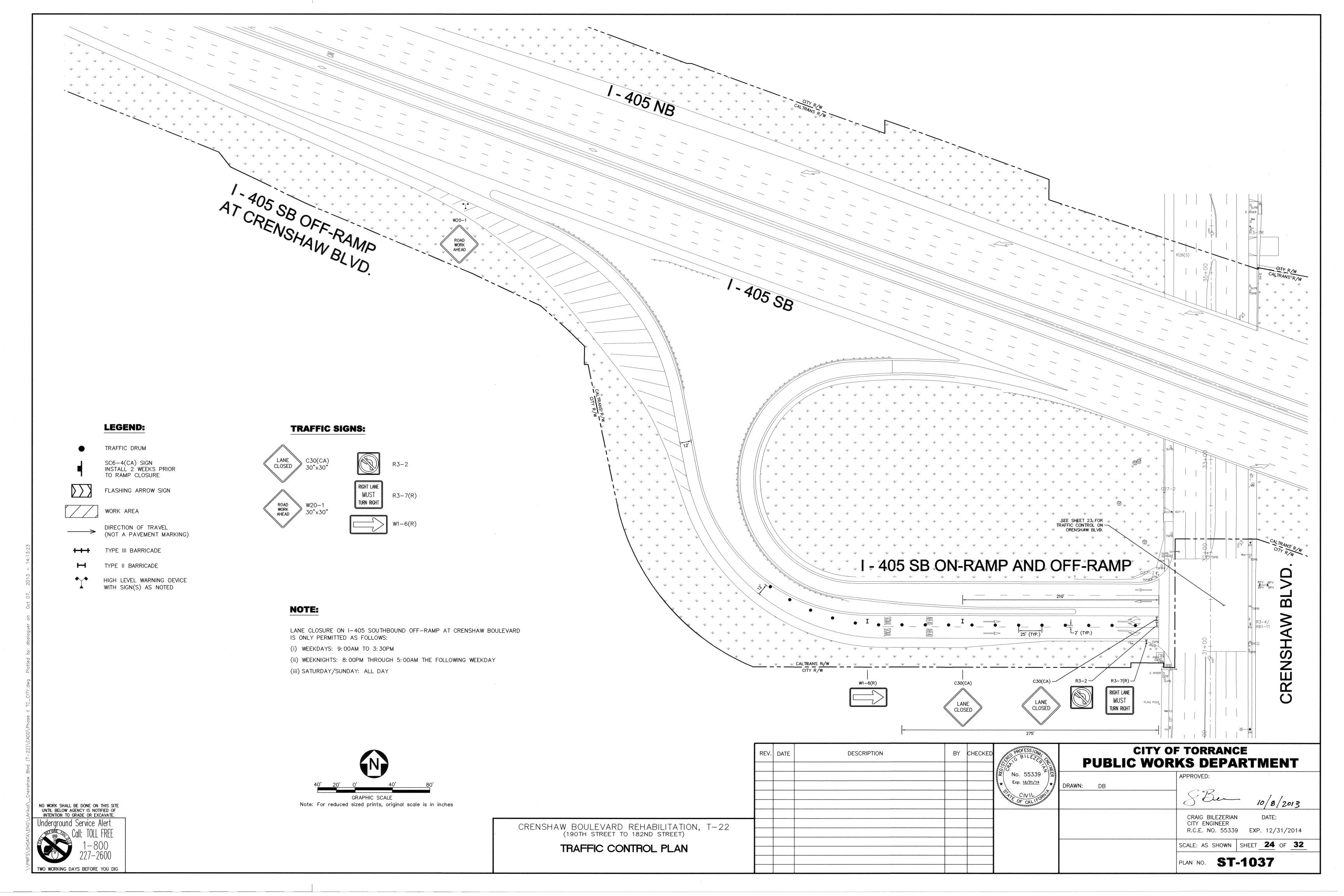


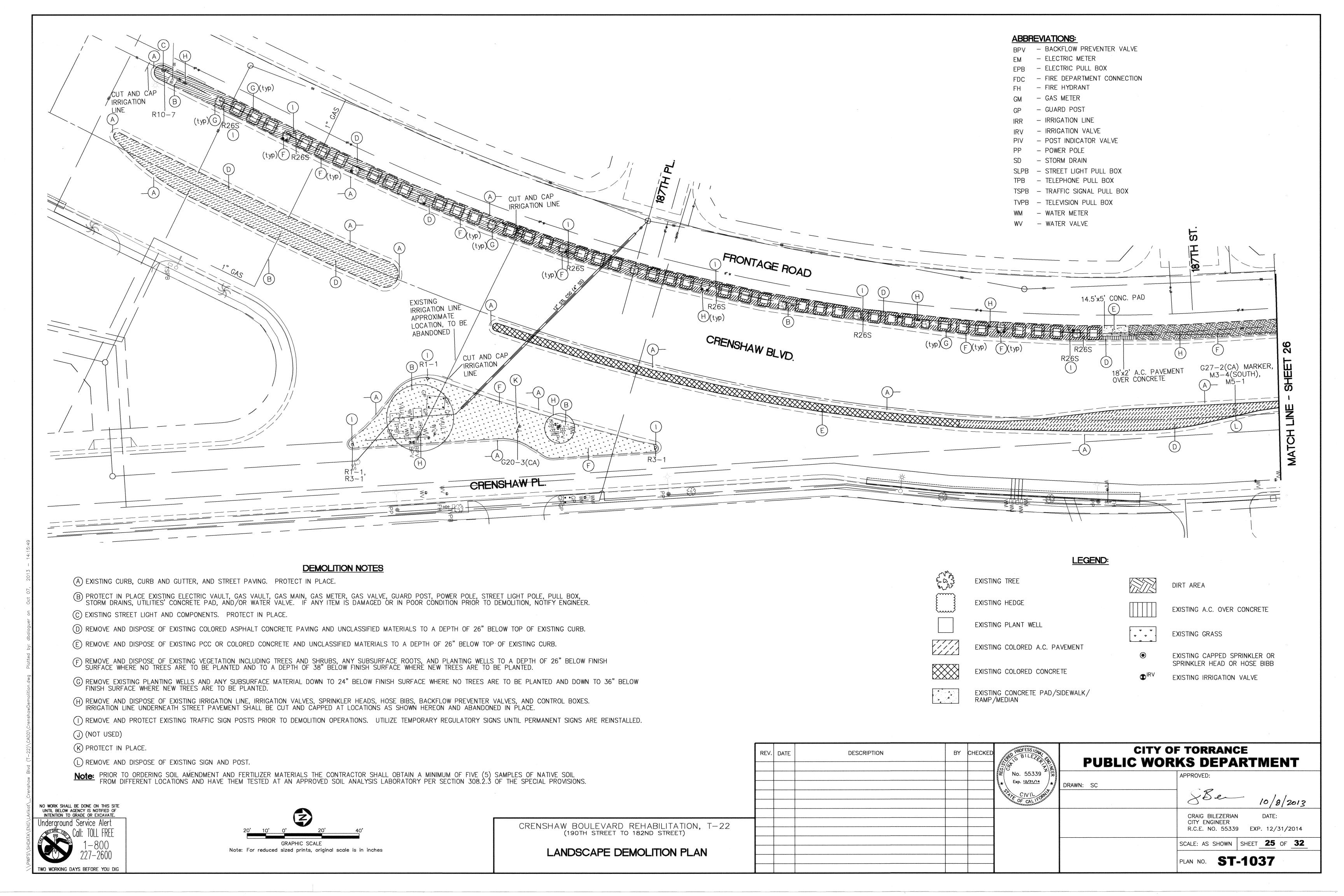


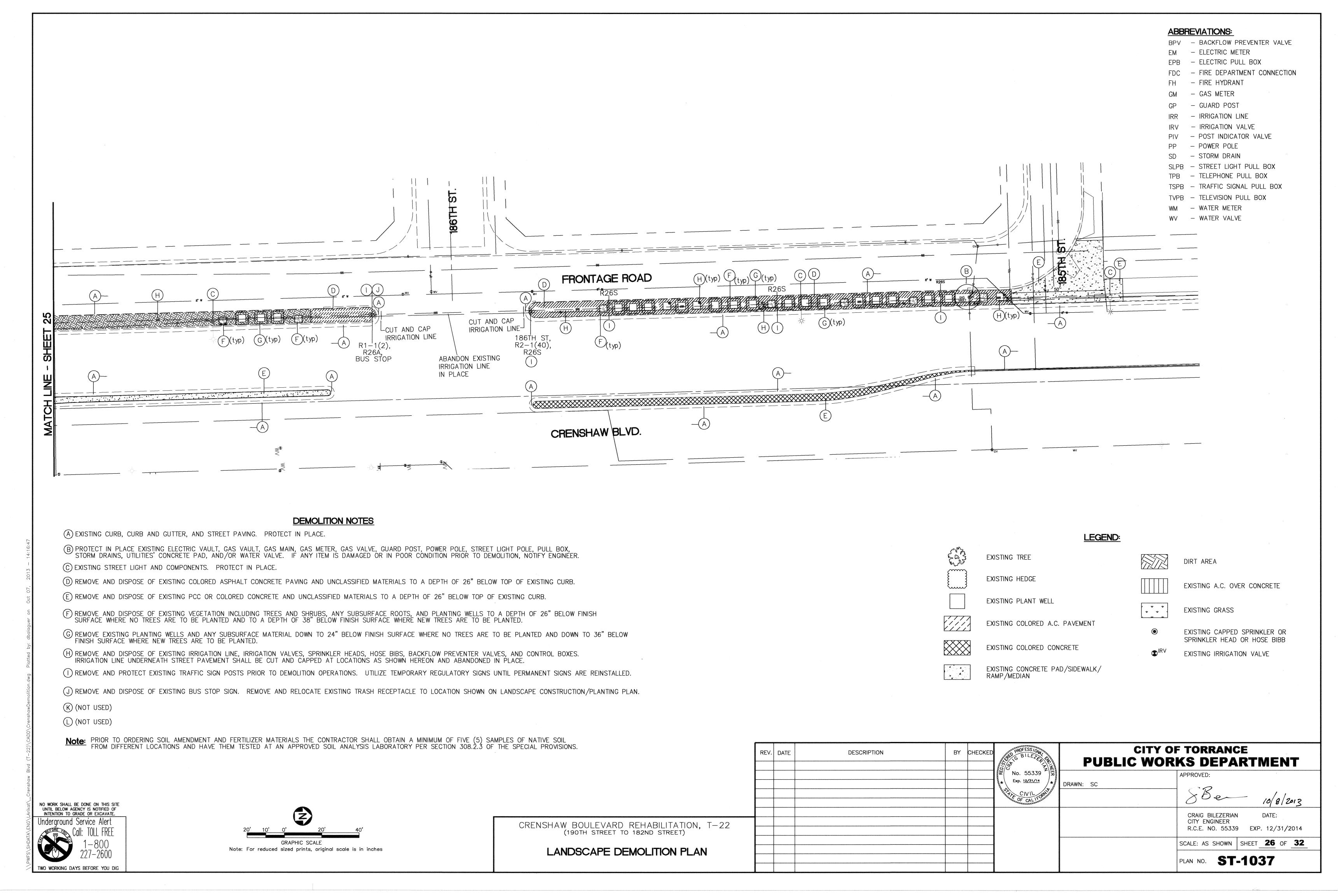


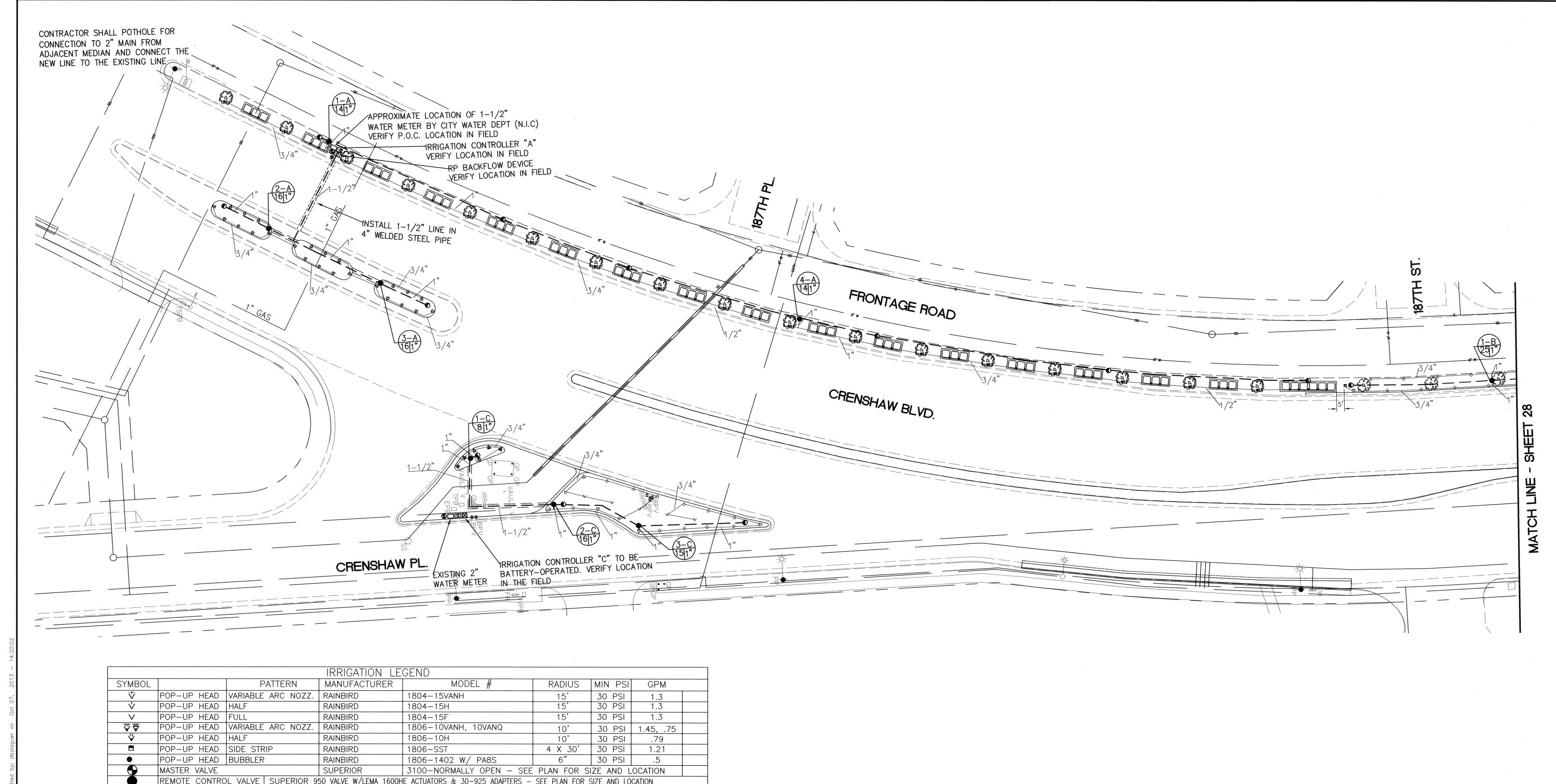












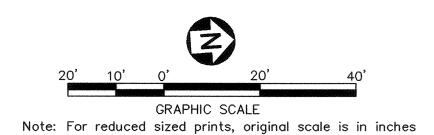
IRRIGATION LEGEND											
SYMBOL		PATTERN	MANUFACTURER	MODEL #	RADIUS	MIN PSI	GPM				
Ţ	POP-UP HEAD	VARIABLE ARC NOZZ.	RAINBIRD	1804-15VANH	15'	30 PSI	1.3				
V	POP-UP HEAD	HALF	RAINBIRD	1804-15H	15'	30 PSI	1.3				
V	POP-UP HEAD	FULL	RAINBIRD	1804-15F	15'	30 PSI	1.3				
⊽♥	POP-UP HEAD	VARIABLE ARC NOZZ.	RAINBIRD	1806-10VANH, 10VANQ	10'	30 PSI	1.45, .75				
"	POP-UP HEAD	HALF	RAINBIRD	1806-10H	10'	30 PSI	.79				
	POP-UP HEAD	SIDE STRIP	RAINBIRD	1806-SST	4 X 30'	30 PSI	1.21				
•	POP-UP HEAD	BUBBLER	RAINBIRD	1806-1402 W/ PA8S	6"	30 PSI	.5				
•	MASTER VALVE		SUPERIOR								
	REMOTE CONTROL VALVE SUPERIOR 950 VALVE W/LEMA 1600HE ACTUATORS & 30-925 ADAPTERS - SEE PLAN FOR SIZE AND LOCATION										
	QUICK COUPLING		RAINBIRD	33DLRC	SEE PLAN FO						
	AUTOMATIC CONT	FROLLER LEIT 4000 W/SH	KIT W/4' MOUNT COLUMN	ENCLOSED IN STAINLESS STEEL CABINI							
	AUTOMATIC ANTI	SIPHON VALVE W/ BA	TTERY CONTROLLER	HUNTER PGV-101-ASV-S-DC W/HUN	TER NODE-100	SEE DETAIL	$_{ extsf{L}}$ D ON SHE	ET 31			
0	R.P. BACKFLOW		FEBC0	825-Y-1 1/2"							
	WATER METER										
- ⊗	SOIL MOISTURE	SENSOR	IRROMETER	WATERMARK	4,						
	MAIN LINE		SCHED. 40 P.V.C	18" DEEP		·					
	LATERAL LINE		SCHED. 40 P.V.C12" DEEP								
	SLEEVING WITHIN		4" SCHEDULE 40 F					·			
	SLEEVING UNDER	R STREET	4" WELDED STEEL	PIPE							
•	VALVE SEQUENCE										
	GPM							with the limbs of			
	VALVE SIZE										

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Underground Service Alert

1-800
227-2600

TWO WORKING DAYS BEFORE YOU DIG

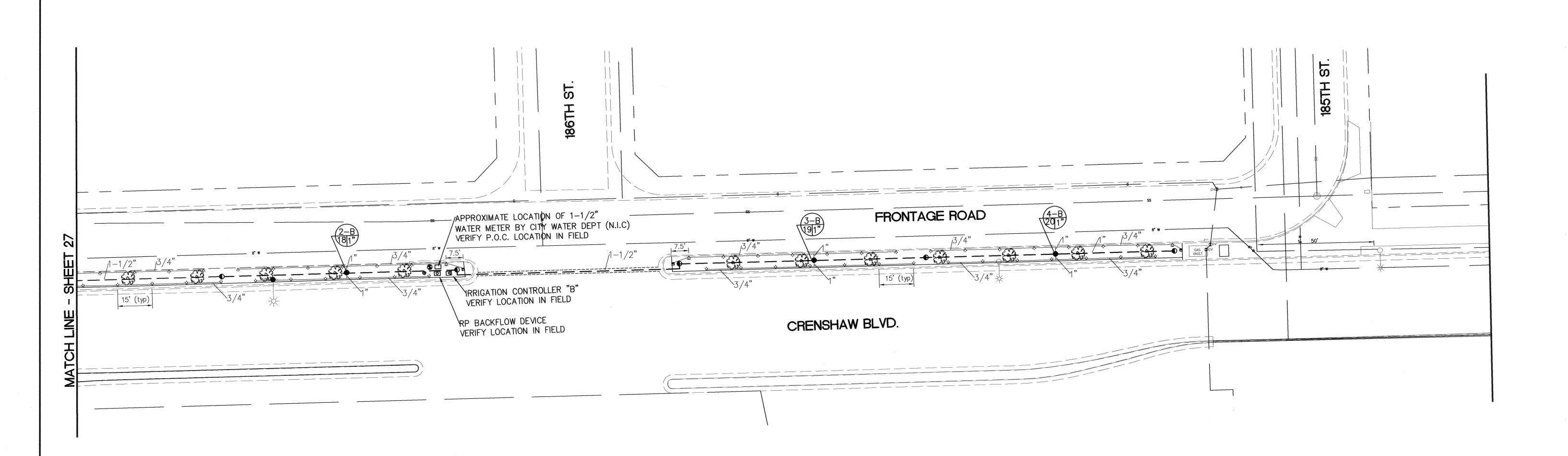


CRENSHAW BOULEVARD REHABILITATION, T-22 (190TH STREET TO 182ND STREET)

IRRIGATION PLAN

REV.	DATE	DESCRIPTION	BY	CHECKED	PROFESSIONAL BILEZER CH	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT
					No. 55339 Exp. 12/31/14 * * * * * * * * * * * * *	APPROVED: Sc
						CRAIG BILEZERIAN DATE: CITY ENGINEER R.C.E. NO. 55339 EXP. 12/31/2014 SCALE: AS SHOWN SHEET 27 OF 32

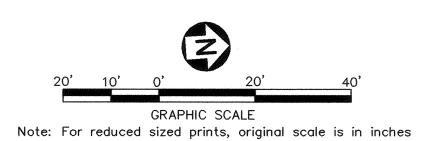
PLAN NO. **ST-1037**



			IRRIGATION LE									
SYMBOL		PATTERN	MANUFACTURER	MODEL #	RADIUS	MIN PSI	GPM					
Ÿ	POP-UP HEAD	VARIABLE ARC NOZZ.	RAINBIRD	1804-15VANH	15'	30 PSI	1.3					
'	POP-UP HEAD	HALF	RAINBIRD	1804-15H	15'	30 PSI	1.3					
	POP-UP HEAD	FULL	RAINBIRD	1804-15F	15'	30 PSI	1.3					
Ψ₩	POP-UP HEAD	VARIABLE ARC NOZZ.	RAINBIRD	1806-10VANH, 10VANQ	10'	30 PSI	1.45, .75					
"	POP-UP HEAD	HALF	RAINBIRD	1806-10H	10'	30 PSI	.79					
	POP-UP HEAD	SIDE STRIP	RAINBIRD	1806-SST	4 X 30'	30 PSI	1.21					
	POP-UP HEAD	BUBBLER	RAINBIRD	1806-1402 W/ PA8S	6"	30 PSI	.5					
9	MASTER VALVE		SUPERIOR									
	REMOTE CONTRO	DL VALVE SUPERIOR 9	50 VALVE W/LEMA 1600H	HE ACTUATORS & 30-925 ADAPTERS -	SEE PLAN FOR	SIZE AND LO	CATION					
	QUICK COUPLING		RAINBIRD	33DLRC	SEE PLAN FO			*******************************				
				ENCLOSED IN STAINLESS STEEL CABIN								
\square	AUTOMATIC ANTI	SIPHON VALVE W/ BA										
0	R.P. BACKFLOW		FEBCO	825-Y-1 1/2"								
	WATER METER											
	SOIL MOISTURE	SENSOR	IRROMETER	WATERMARK								
	MAIN LINE		SCHED. 40 P.V.C	18" DEEP								
	LATERAL LINE		SCHED. 40 P.V.C12" DEEP									
	SLEEVING WITHIN											
	SLEEVING UNDER	R STREET	4" WELDED STEEL	PIPE								
•	VALVE SEQUENC	E						***************************************				
	GPM											
	VALVE SIZE							thereticed any orange or many payor, a soon				

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

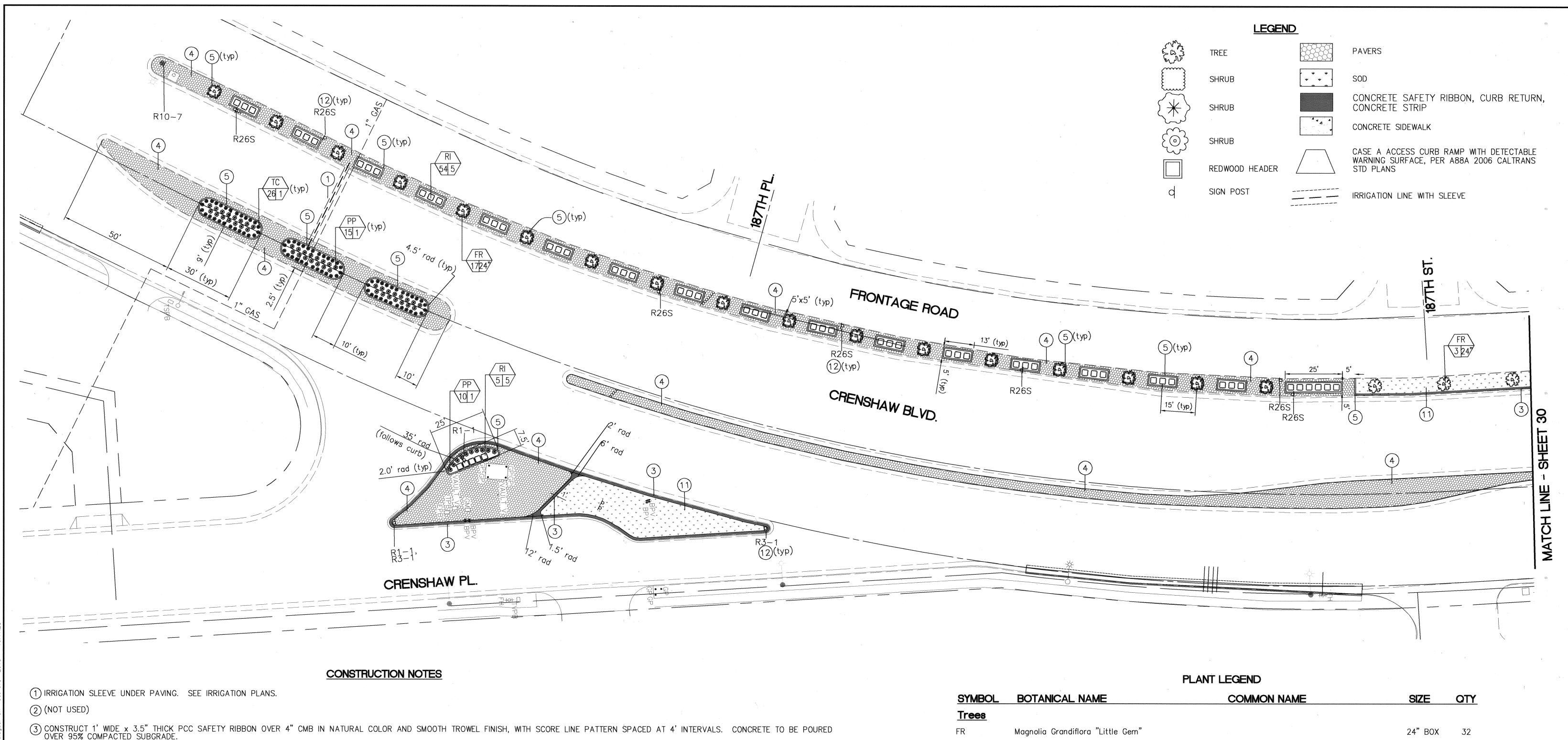
TWO WORKING DAYS BEFORE YOU DIG



CRENSHAW BOULEVARD REHABILITATION, T-22 (190TH STREET TO 182ND STREET)

IRRIGATION PLAN

-					
′. —	DATE	DESCRIPTION BY	CHECKED	SO BILEZEA CHA	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT
				No. 55339 3	APPROVED:
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				OF CALIFORN	Be 16/8/2013
					CRAIG BILEZERIAN DATE:
					CITY ENGINEER R.C.E. NO. 55339 EXP. 12/31/2014
					SCALE: AS SHOWN SHEET 28 OF 32
					PLAN NO. ST-1037

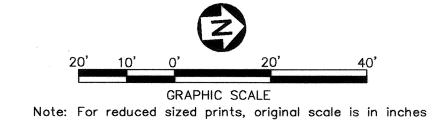


- 3 CONSTRUCT 1' WIDE x 3.5" THICK PCC SAFETY RIBBON OVER 4" CMB IN NATURAL COLOR AND SMOOTH TROWEL FINISH, WITH SCORE LINE PATTERN SPACED AT 4' INTERVALS. CONCRETE TO BE POURED OVER 95% COMPACTED SUBGRADE.
- 4 CONSTRUCT ACKER STONE PRECAST INTERLOCKING CONCRETE PAVERS IN STYLE HOLLAND STONE-1 AND COLOR TERRA COTTA BLEND PER DETAIL J, SHEET 31, SPECIAL PROVISIONS, AND MANUFACTURER'S SPECIFICATIONS.
- (5) INSTALL 2"x4" REDWOOD HEADERS WITH 2"X2'X12" REDWOOD STAKES PER PROJECT SPECIFICATIONS.
- 6 (NOT USED)
- 7 (NOT USED)
- 8 (NOT USED)
- (9) (NOT USED)
- (NOT USED)
- 11) INSTALL MARATHON SOD (MS) PER PROJECT SPECIFICATIONS.
- 12 UPON COMPLETION OF NECESSARY LANDSCAPE/HARDSCAPE CONSTRUCTION THAT WILL BE OTHERWISE HINDERED BY THE EXISTING TRAFFIC SIGN POSTS, INSTALL SIGN POSTS IN ORIGINAL LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY PREPARATION WORK REQUIRED FOR INSTALLATION OF SIGN POSTS. ANY SIGN POSTS DAMAGED DURING DEMOLITION WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.

Note: FOLLOWING COMPLETION OF DEMOLITION AND CONSTRUCTION WORK IN MEDIANS, CONTRACTOR SHALL REMOVE ALL DEBRIS, BROKEN CONCRETE, GRAVEL, AND OTHER FOREIGN MATERIALS, AND INSTALL CLASS A IMPORT TOPSOIL AS NECESSARY TO BRING FINISH GRADE IN LANDSCAPE AREAS TO 1-1/2" BELOW TOP OF SURROUNDING CURBS.

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TWO WORKING DAYS BEFORE YOU DIG



Notes: Install a 2-3" thick layer of shredded bark mulch throughout all tree and shrub wells. EXCAVATE TO A DEPTH OF 38" BELOW TOP OF EXISTING CURB WHERE NEW PLANTS ARE TO BE PLANTED.

Indian Hawthorne

Ivy Geranium

Marathon Sod

REV. DATE DESCRIPTION BY CHECKE Exp. 12/31/14

Shrubs/Perennials/Ground Covers

Rhaphiolepis Indica 'Ballerina'

Pelargodium Peltatum

Teucrium Chamaedrys X Lucydris

Marathon II Species Dwarf Tall Fescue

CITY OF TORRANCE PUBLIC WORKS DEPARTMENT

5 GALLON

1 GALLON

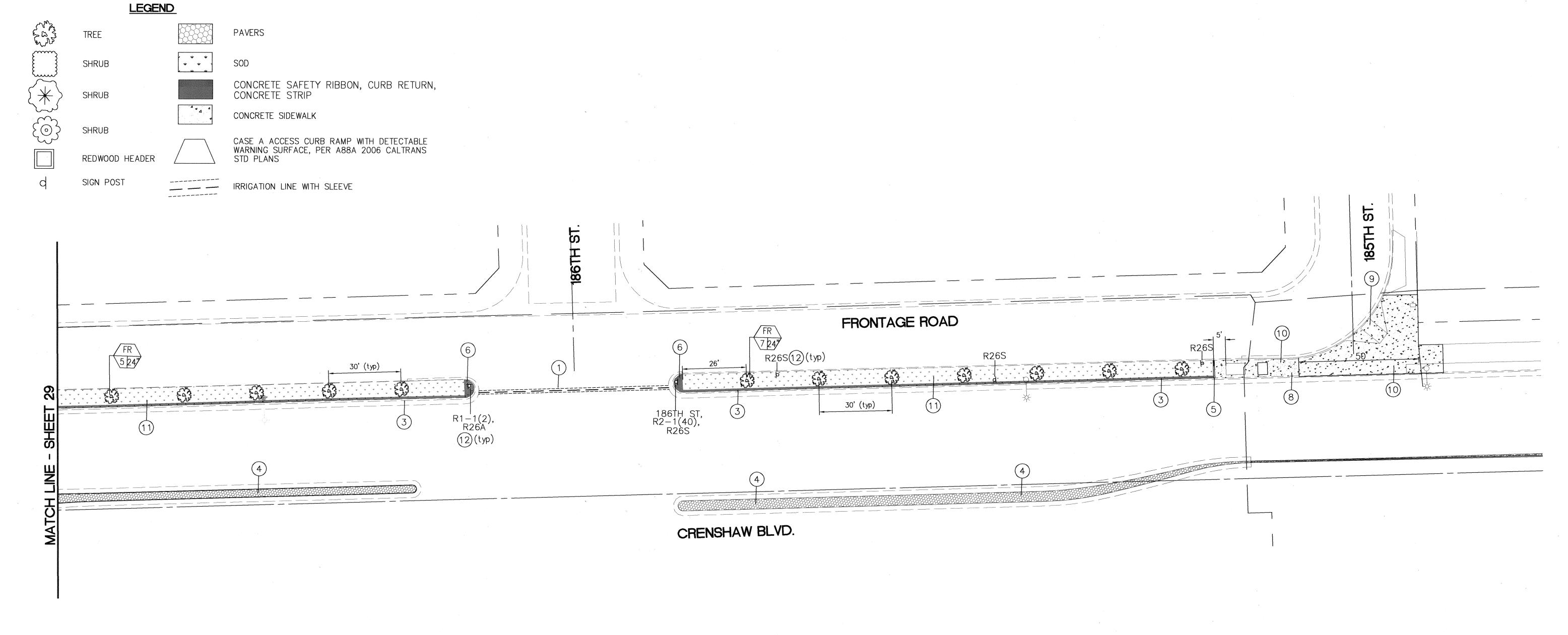
1 GALLON

DRAWN: SC 10/8/2013 CRAIG BILEZERIAN CITY ENGINEER R.C.E. NO. 55339 EXP. 12/31/2014 SCALE: AS SHOWN SHEET 29 OF 32

PLAN NO. **ST-1037**

CONSTRUCTION/PLANTING PLAN

CRENSHAW BOULEVARD REHABILITATION, T-22 (190TH STREET TO 182ND STREET)



1 IRRIGATION SLEEVE UNDER PAVING. SEE IRRIGATION PLANS.

2 (NOT USED)

3 CONSTRUCT 1' WIDE x 3.5" THICK PCC SAFETY RIBBON OVER 4" CMB IN NATURAL COLOR AND SMOOTH TROWEL FINISH, WITH SCORE LINE PATTERN SPACED AT 4' INTERVALS. CONCRETE TO BE POURED OVER 95% COMPACTED SUBGRADE.

CONSTRUCTION NOTES

4 CONSTRUCT ACKER STONE PRECAST INTERLOCKING CONCRETE PAVERS IN STYLE HOLLAND STONE-1 AND COLOR TERRA COTTA BLEND PER DETAIL J, SHEET 31, SPECIAL PROVISIONS, AND MANUFACTURER'S SPECIFICATIONS.

(5) INSTALL 2"x4" REDWOOD HEADERS WITH 2"X2'X12" REDWOOD STAKES PER PROJECT SPECIFICATIONS.

6 CONSTRUCT 3.75' RADIUS SEMI-CIRCULAR, 3.5" THICK PCC CURB RETURN OVER 4" CMB IN A NATURAL COLOR AND SMOOTH TROWEL FINISH. CONCRETE TO BE POURED OVER 95% COMPACTED SUBGRADE.

7 (NOT USED)

(8) INSTALL TRASH RECEPTACLE AND POST. INSTALL NEW BUS STOP SIGN AND NEW POST AS SHOWN ON SIGNING PLAN.

9 CONSTRUCT CASE A CURB RAMP WITH DETECTABLE WARNING SURFACE PER SPPWC STANDARD PLAN NO. 111-4.

10 CONSTRUCT 3.5" THICK PCC SIDEWALK OVER 4" CMB.

11) INSTALL MARATHON SOD (MS) PER PROJECT SPECIFICATIONS.

12 UPON COMPLETION OF NECESSARY LANDSCAPE/HARDSCAPE CONSTRUCTION THAT WILL BE OTHERWISE HINDERED BY THE EXISTING TRAFFIC SIGN POSTS, INSTALL SIGN POSTS IN ORIGINAL LOCATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR ANY PREPARATION WORK REQUIRED FOR INSTALLATION OF SIGN POSTS. ANY SIGN POSTS DAMAGED DURING DEMOLITION WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.

Note: FOLLOWING COMPLETION OF DEMOLITION AND CONSTRUCTION WORK IN MEDIANS, CONTRACTOR SHALL REMOVE ALL DEBRIS, BROKEN CONCRETE, GRAVEL, AND OTHER FOREIGN MATERIALS, AND INSTALL CLASS A IMPORT TOPSOIL AS NECESSARY TO BRING FINISH GRADE IN LANDSCAPE AREAS TO 1-1/2" BELOW TOP OF SURROUNDING CURBS.

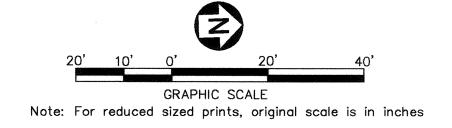
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Underground Service Alert

Call: TOLL FREE

1-800
227-2600

TWO WORKING DAYS BEFORE YOU DIG



CRENSHAW BOULEVARD REHABILITATION, T-22 (190TH STREET TO 182ND STREET)

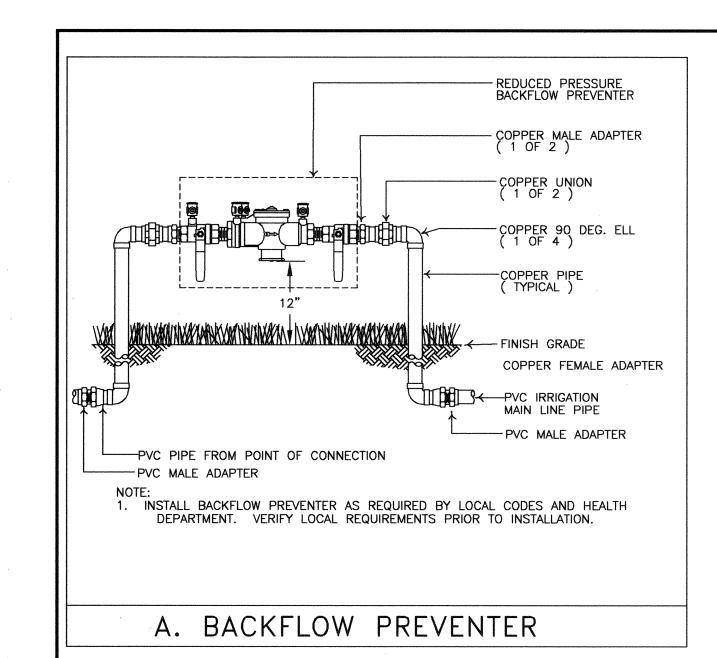
CONSTRUCTION/PLANTING PLAN

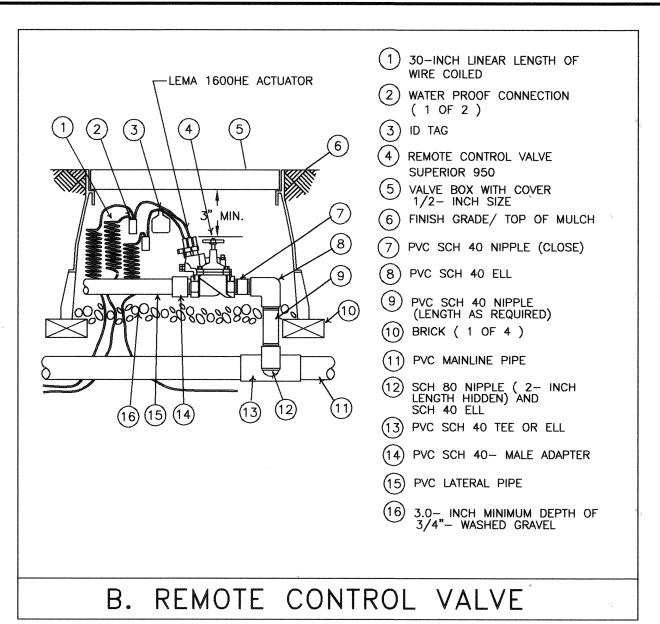
PLANT LEGEND

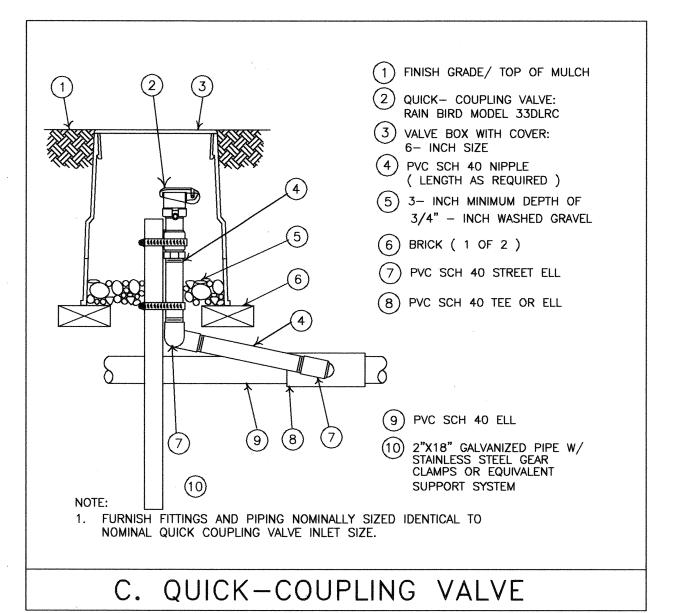
SYM	BOL BOTANICAL NAME	COMMON NAME	SIZE	QTY
Tree	28			
FR	Magnolia Grandiflora "Little Gem"		24" BOX	32
Chri	the /Perenniele /Creund Covers			
	ubs/Perennials/Ground Covers			
RI	Rhaphiolepis Indica 'Ballerina'	Indian Hawthorne	5 GALLON	59
PP	Pelargodium Peltatum	Ivy Geranium	1 0 411 041	
	r elargodiam r enatum	ivy Geraniani	1 GALLON	55
MS	Marathon II Species Dwarf Tall Fescue	Marathon Sod	I GALLUN	55

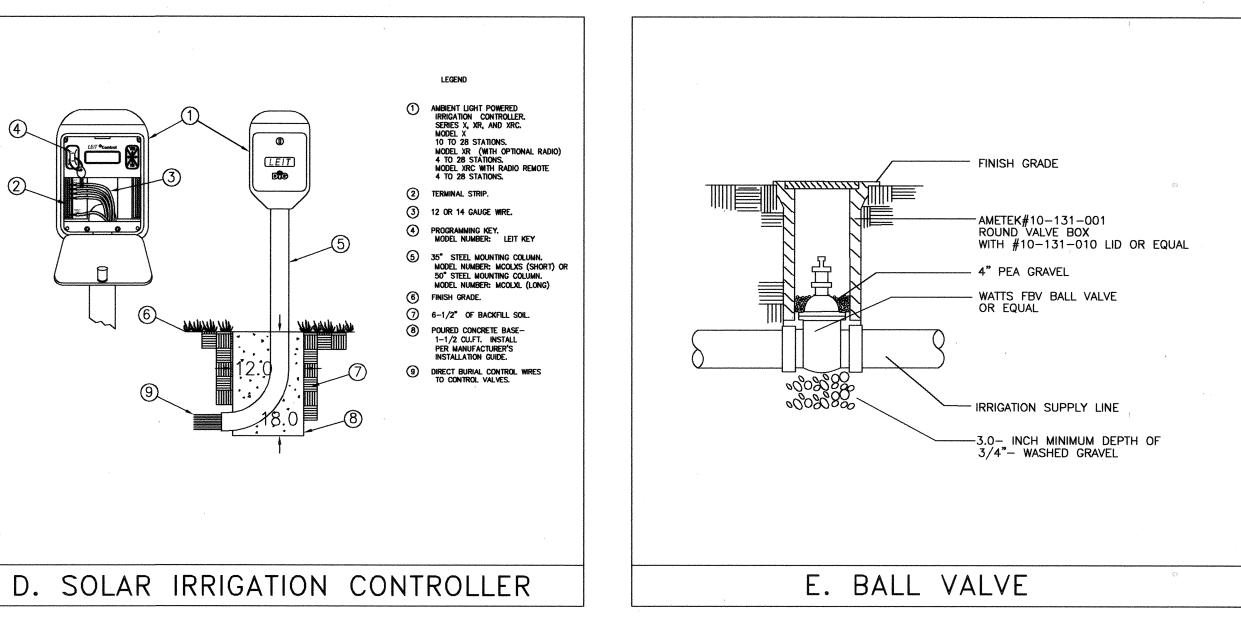
Notes: Install a 2-3" thick layer of shredded bark mulch throughout all tree and shrub wells. Excavate to a depth of 38" below top of existing curb where new plants are to be planted.

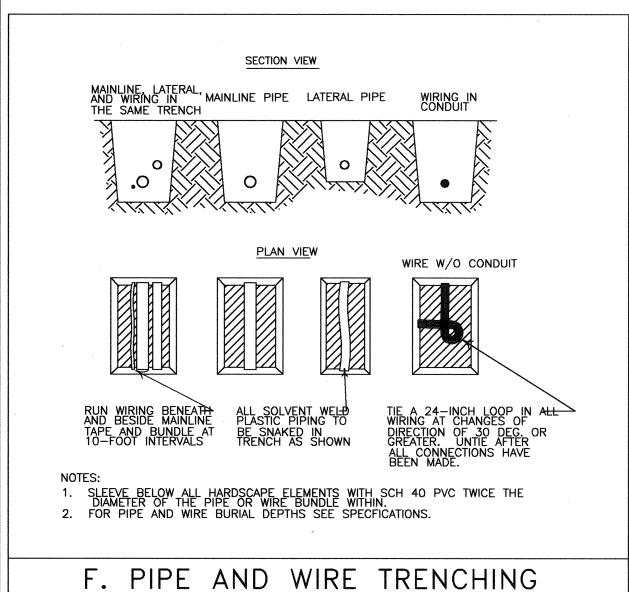
					ATPTS	
REV.	DATE	DESCRIPTION	BY	CHECKED	PROFESS 10AM	CITY OF TORRANCE
					REAL COLLEGE CENTER	PUBLIC WORKS DEPARTMENT
					10/0 2/2	PODEIO WORKS DEPARTMENT
					型 No. 55339 一眾	APPROVED:
					* Exp. 12/31/14	DRAWN: SC
			***************************************		CNIL BUT	SBer 10/8/2013
					OF CALIFORNIA	10/8/2013
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		Ł		,		CITY ENGINEER
						R.C.E. NO. 55339 EXP. 12/31/2014
		,				SCALE: AS SHOWN SHEET 30 OF 32
						PLAN NO. ST-1037
						15 to 01-1031

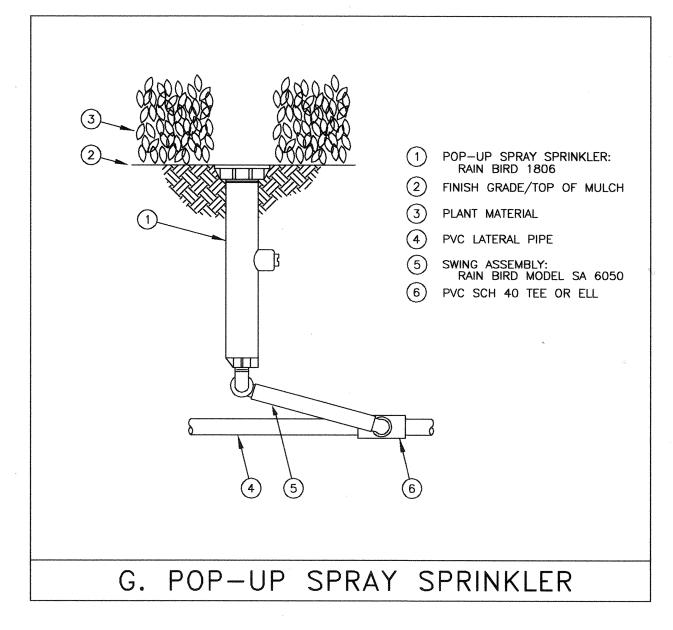


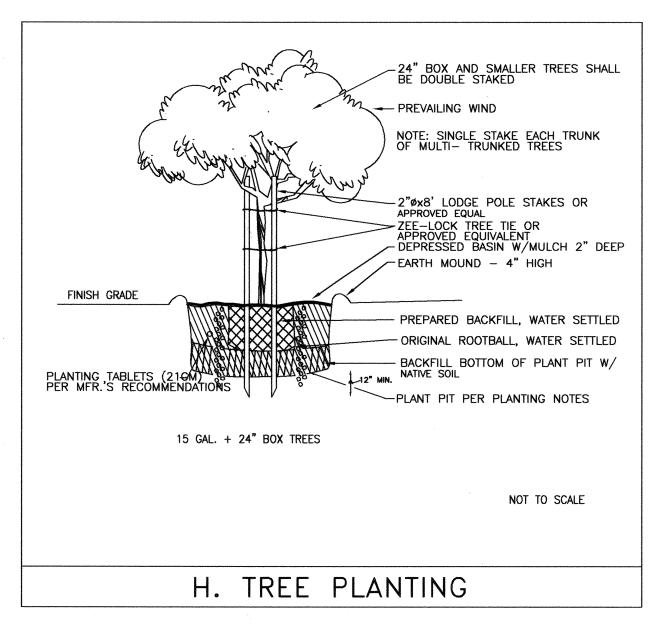


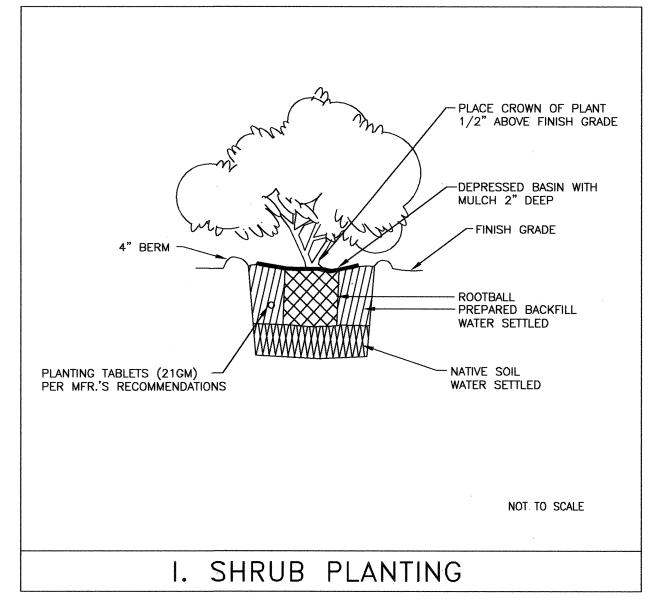


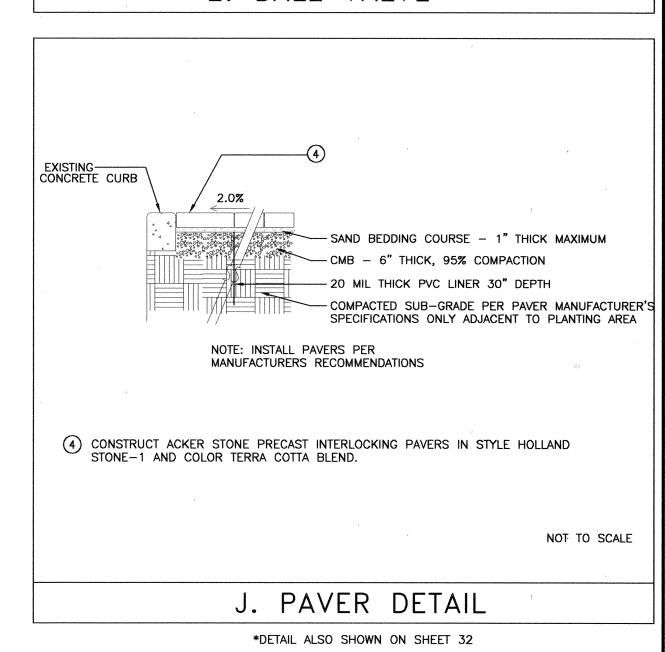












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Underground Service Alert

Call: TOLL FREE

1-800
227-2600

TWO WORKING DAYS BEFORE YOU DIG

REV. DATE DESCRIPTION BY CHECKED

BY CHECKED

CITY OF TORRANCE
PUBLIC WORKS DEPARTMENT

APPROVED:

DRAWN: SC

CRAIG BILEZERIAN
CITY ENGINEER
R.C.E. NO. 55339 EXP. 12/31/2014

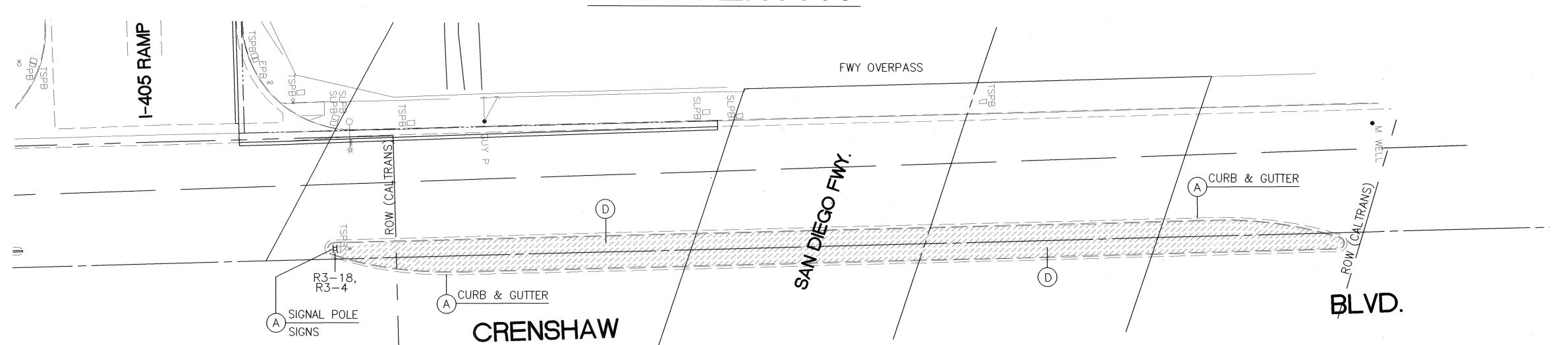
SCALE: AS SHOWN SHEET 31 OF 32

PLAN NO. ST-1037

CRENSHAW BOULEVARD REHABILITATION, T-22 (190TH STREET TO 182ND STREET)

LANDSCAPE DETAIL PLAN

DEMOLITION:



DEMOLITION NOTES

A EXISTING AS NOTED. PROTECT IN PLACE.

D REMOVE AND DISPOSE OF EXISTING COLORED ASPHALT CONCRETE PAVING AND UNCLASSIFIED MATERIALS DOWN TO A DEPTH OF 26" BELOW TOP OF EXISTING CURB.

ABBREVIATIONS

EPB - ELECTRIC PULL BOX - GAS METER

GP - GUARD POST

SLPB - STREET LIGHT PULL BOX

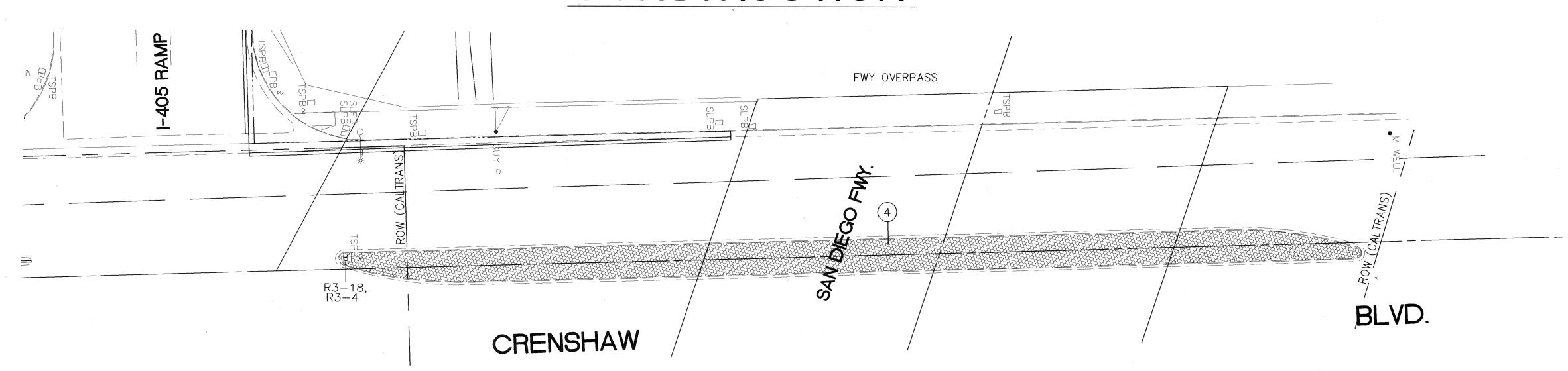
TPB - TELEPHONE PULL BOX

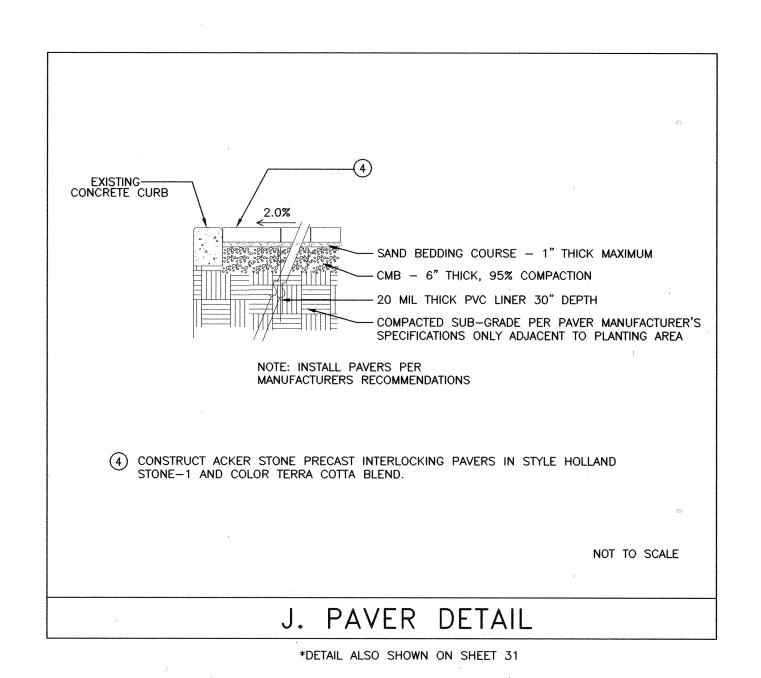
TSPB - TRAFFIC SIGNAL PULL BOX

LEGEND

EXISTING COLORED A.C. PAVEMENT

CONSTRUCTION:





Note: For reduced sized prints, original scale is in inches

CRENSHAW BOULEVARD REHABILITATION, T-22 (190TH STREET TO 182ND STREET)

DEMOLITION/CONSTRUCTION PLAN

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CITY OF TORRANCE PUBLIC WORKS DEPARTMENT

10/8/2013 CRAIG BILEZERIAN CITY ENGINEER R.C.E. NO. 55339 EXP. 12/31/2014

SCALE: AS SHOWN SHEET 32 OF 32

PLAN NO. **ST-1037**

TWO WORKING DAYS BEFORE YOU DIG

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.